Bexsens

Precision in Every Sense

PRODUCT CATALOGUE

2026

INDUSTRIAL SENSOR SOLUTIONS

Product Catalogue

A wide range of inductive, capacitive, photoelectric and ultrasonic sensors, with selection guides, technical data and dimensional drawings.

- Inductive
- Capacitive
- Photoelectric
- Ultrasonic



2.800+ models **240+** series **4** technologies

www.bexsens.com

About Bexsens

Precision in Every Sense — the right product, used the right way

40+ years
industry experience

BEXSENS Sensör Sanayi ve Ticaret Ltd. Şti. is a young and dynamic solution partner founded on the expertise of a team with more than 40 years of field and project experience in sensor technologies.

We offer sensor solutions focused on the right product selection, sound guidance and sustainable performance. Our goal is not only to supply products, but to understand the requirements of each application and ensure the **right product – right use** match.

HIGHLIGHTS

40+ years of experience
An approach built on real needs from the field

Quality-focused portfolio
Products selected for reliability, stability and long service life

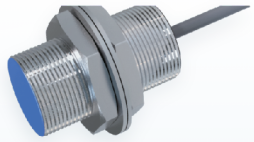
Wide product range
Alternatives for different industries and applications

Technical guidance
Support with selection, compatibility and integration

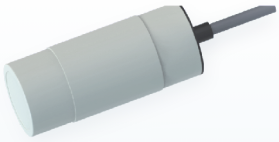
Long-term partnership
Continuity in after-sales support

Fast, clear solutions
We review your application and offer alternatives quickly

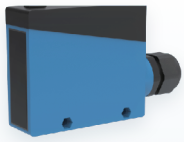
PRODUCT RANGE



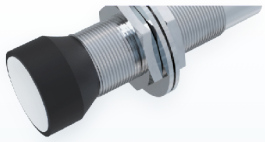
Inductive Sensors
1.838 models · 133 series



Capacitive Sensors
305 models · 31 series



Photoelectric Sensors
628 models · 63 series



Ultrasonic Sensors
45 models · 15 series

HOW WE WORK

1

Understanding the need
We clarify the measured variable, range, ambient conditions and mounting needs.

2

Choosing the right solution
We recommend the best option from our portfolio for cost and performance.

3

Technical guidance
We support compatibility and integration with technical know-how.

4

After-sales continuity
We work for long-term satisfaction and sustainable solutions.

INDUSTRIES

Industrial Automation · Energy · Food & Beverage · Automotive · Machine Building · Process Industries · HVAC · Water & Wastewater · Chemicals · Plastics & Packaging · Logistics & Warehousing · General Industry

2026 PRODUCT CATALOGUE

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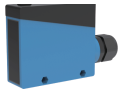

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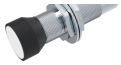

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USING THIS CATALOGUE

How to read a product code

A Bexsens product code describes the product family, housing, output type, mounting, sensing distance and connection in a single line. The example below is an M12 inductive sensor.

BIDS – M12 – N11F4.0 – PC2

Product family

BI··	Inductive
BC··	Capacitive
BF··	Photoelectric
BU··	Ultrasonic

Housing

M12	M12 threaded cylindrical
Q04	Φ4 smooth cylindrical
R31	Rectangular housing

Output · mounting · distance

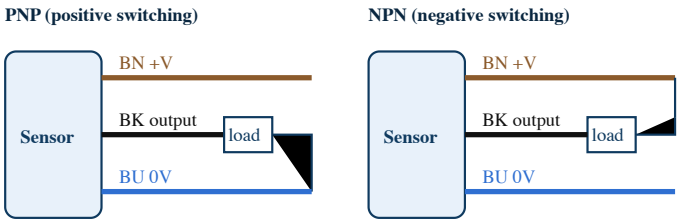
N11	NPN N.O
N21	NPN N.C
N31	NPN N.O+N.C
P11	PNP N.O
P21	PNP N.C
P31	PNP N.O+N.C
F	Flush mounting
N	Non-flush
4.0	Sn = 4 mm

Connection

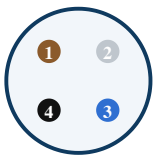
PC2	2 m PVC cable
PC3	3 m PVC cable
S83	M8 connector, 3-pin
S84	M8 connector, 4-pin
S124	M12 connector, 4-pin
S125	M12 connector, 5-pin
Z83	0.3 m cable + M8, 3-pin
Z124	0.3 m cable + M12, 4-pin

Example: BIDS-M12-N11F4.0-PC2 → inductive sensor with M12 threaded housing, NPN N.O output, flush mounting, 4 mm sensing distance, 2 m PVC cable. Suffixes (e.g. **-S**, **-T**) indicate housing or cable exit variants of the same series; see the series pages for details. Special output codes such as analog, NAMUR or emitter/receiver are explained on the relevant series page.

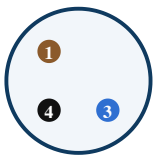
CONNECTION: WIRE COLOURS AND PIN ASSIGNMENT



BN	Brown	+V supply
BU	Blue	0 V
BK	Black	Output (N.O)
WH	White	2nd output (N.C) / extra function



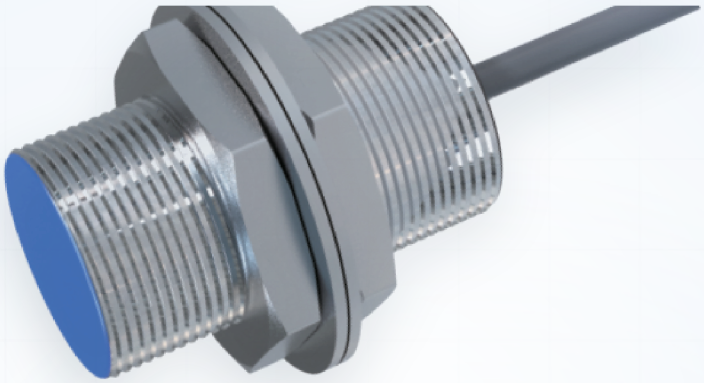
M12 · 4 pin



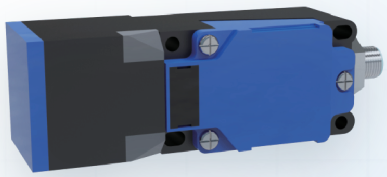
M8 · 3 pin

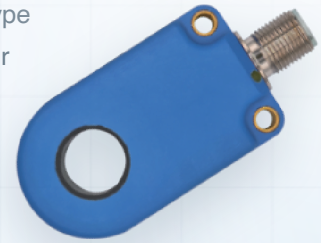
Standard colour codes for DC 3- and 4-wire sensors (IEC 60947-5-2). Connector shown from the sensor side, looking at the pins. Series-specific wiring is given on the relevant series page.

01



Inductive Sensors





Inductive proximity sensors that detect metal objects without contact and without wear. Cylindrical, rectangular and ring type housings; flush and non-flush mounting, cable and connector versions.

1.838
MODELS

133
SERIES

01
Contactless, wear-free metal detection

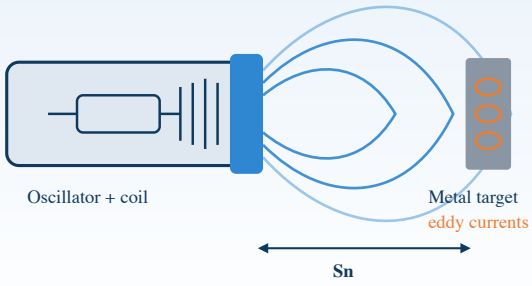
02
High switching frequency

03
Flush / non-flush mounting

04
Factor 1 and high temperature models

TECHNOLOGY

How inductive sensors work



Electromagnetic field and eddy currents

An oscillator inside the sensor creates a high-frequency electromagnetic field at the sensing face. A metal target entering the field induces eddy currents that dampen the oscillation. The evaluation circuit detects this change and switches the output. With no moving parts and no contact, there is no wear.

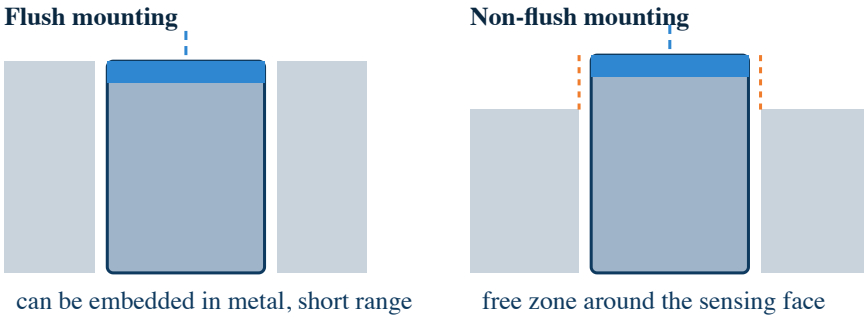
SELECTION TIPS

- **Sn (rated distance):** measured with a standard steel target; in practice about 80% of Sn is the safe operating range.
- **Flush:** can be embedded in metal, shorter distance. **Non-flush:** longer distance, needs free space around the face.
- **NPN / PNP:** chosen to match the controller input; PNP is more common in Europe.
- **N.O / N.C:** the output switches on (N.O) or off (N.C) when the target is present.
- **Factor 1:** the same sensing distance on all metals; an advantage with aluminium and brass.

TYPICAL APPLICATIONS

- Position and end-point detection
- Part counting
- Gear / speed detection
- Robot and fixture monitoring
- Valve position detection
- Conveyor systems
- Machine tools
- Automotive assembly lines

MOUNTING



can be embedded in metal, short range

free zone around the sensing face

Non-flush models need a metal-free zone around the sensing face; when mounted side by side, keep enough spacing to prevent mutual interference.

Sensing distance depends on the target material; it is shorter on non-ferrous metals (aluminium, brass, copper). Product values are given on the series pages.

QUICK SELECTION

Inductive Sensors

Series grouped by housing type. Click a series code or page number to go to that page.



Φ3 Cylindrical

1 series · series code, sensing distance, page

BIDS-Q03-F0.6-PC2-Z83	0.6mm(Flush)	13



M4 Cylindrical

1 series · series code, sensing distance, page

BIDS-M04-F0.6-PC2-Z83	0.6mm(Flush)	14



Φ4 / M5 / Φ6.5 Cylindrical

1 series · series code, sensing distance, page

BIDS-Q04-M05-Q6.5-NA10F0.8-NA10F1.0-PC2	0.8mm(Flush) / 1mm(Flush)	15



Φ4 Cylindrical

1 series · series code, sensing distance, page

BIDS-Q04-F0.8-F1.2-PC2-Z83-S83	0.8mm(Flush) / 1.2mm(Flush)	16



M5 Cylindrical

2 series · series code, sensing distance, page

BIDS-M05-F0.8-F1.2-PC2-S	0.8mm(Flush) / 1.2mm(Flush)	17
BIDS-M05-F0.8-F1.2-S83-Z83-S	0.8mm(Flush) / 1.2mm(Flush)	18



Φ6.5 Cylindrical

8 series · series code, sensing distance, page

BIDS-Q6.5-F2.0-F3.0-PC2-R-T	2mm(Flush) / 3mm(Quasi-Flush)	19
BIDS-Q6.5-F2.0-F3.0-PC2-S	2mm(Flush) / 3mm(Quasi-Flush)	20
BIDS-Q6.5-F2.0-F3.0-S83-S-R	2mm(Flush) / 3mm(Quasi-Flush)	21
BIDS-Q6.5-F2.0-F3.0-Z83-R-T	2mm(Flush) / 3mm(Quasi-Flush)	22
BIDS-Q6.5-N4.0-N6.0-PC2-S	4mm(Non-Flush) / 6mm(Non-Flush)	23
BIDS-Q6.5-N4.0-N6.0-S83-S	4mm(Non-Flush) / 6mm(Non-Flush)	24
BIDS-Q6.5-F2.0-PC2-S83	2mm(Flush)	25
BIDS-Q6.5-N4.0-PC2-S83	4mm(Non-Flush)	26



M8 / M12 Cylindrical

1 series · series code, sensing distance, page

BIDS-M08-M12-NA10F1.0-NA10F2.0-NA10N2.0-NA10N4.0-PC2	1mm(Flush) / 2mm(Non-Flush) / 2m…	27



M8 Cylindrical

19 series · series code, sensing distance, page

BIAS-M08-V2F1.5-V2N2.5-PC2-S83	0.1...1.5mm(Flush) / 0.1...2.5mm…	28
BIDS-M08-F2.0-F3.0-PC2-R-T	2mm(Flush) / 3mm(Quasi-Flush)	29
BIDS-M08-F2.0-F3.0-PC2-S	2mm(Flush) / 3mm(Quasi-Flush)	30
BIDS-M08-F2.0-F3.0-S124-S	2mm(Flush) / 3mm(Quasi-Flush)	31
BIDS-M08-F2.0-F3.0-S83-S-R	2mm(Flush) / 3mm(Quasi-Flush)	32
BIDS-M08-F2.0-F3.0-Z83-T-R	2mm(Flush) / 3mm(Quasi-Flush)	33
BIDS-M08-N4.0-N6.0-PC2-S	4mm(Non-Flush) / 6mm(Non-Flush)	34
BIDS-M08-N4.0-N6.0-S124-S	4mm(Non-Flush) / 6mm(Non-Flush)	35
BIDS-M08-N4.0-N6.0-S83-S	4mm(Non-Flush) / 6mm(Non-Flush)	36
BIDM-M08-F2.0-PC2-S	2mm(Flush)	37
BIDM-M08-F2.0-S83-S-S124	2mm(Flush)	38
BIDS-M08-F2.0-PC2-S83-S124	2mm(Flush)	39
BIDT-M08-F2.0-S83-S-S124	2mm(Flush)	40
BIDW-M08-F2.0-S83-S-S124	2mm(Flush)	41
BIDW-M08-F2.0-UC2-S	2mm(Flush)	42
BIDS-M08-N4.0-PC2-S83-S124	4mm(Non-Flush)	43
BIDT-M08-N4.0-S83-S-S124	4mm(Non-Flush)	44
BIDW-M08-N4.0-S124-S	4mm(Non-Flush)	45
BIDW-M08-N4.0-UC2-S-S83	4mm(Non-Flush)	46



M12 / M18 / M30 Cylindrical · Factor 1

1 series · series code, sensing distance, page

BIDF-M12-F10-F4.0-F8.0-S124-F	4mm(Flush) / 8mm(Flush) / 10mm(F…	47



M12 Cylindrical

18 series · series code, sensing distance, page

BIAS-M12-I2F3.0-I2N4.0-V2F3.0-V2N4.0-PC2-S124	0.1...3.0mm(Flush) / 0.1...4.0mm…	48
BIDH-M12-F2.0-F4.0-G2-120	2mm(Flush) / 4mm(Flush)	49
BIDM-M12-F2.0-F4.0-PC2-S	2mm(Flush) / 4mm(Flush)	50
BIDM-M12-F2.0-F4.0-S124-S	2mm(Flush) / 4mm(Flush)	51
BIDS-M12-A14F2.0-A14F4.0-A24F2.0-A24F4.0-A14N4.0-A24N4.0-U15F2.0-U15F4.0-U25F2.0-U25F4.0-U15N4.0-U25N4.0-PC2	2mm(Flush) / 4mm(Flush) / 4mm(No…	52
BIDS-M12-A14F2.0-A14F4.0-A24F2.0-A24F4.0-A14N4.0-A24N4.0-U15F2.0-U15F4.0-U25F2.0-U25F4.0-U15N4.0-U25N4.0-S124	2mm(Flush) / 4mm(Flush) / 4mm(No…	53
BIDS-M12-F4.0-F6.0-PC2-S	4mm(Flush) / 6mm(Quasi-Flush)	54
BIDS-M12-F4.0-F6.0-S124-S	4mm(Flush) / 6mm(Quasi-Flush)	55
BIDS-M12-F4.0-N8.0-PC2-S124	4mm(Flush) / 8mm(Non-Flush)	56
BIDS-M12-N10-N8.0-PC2-S	8mm(Non-Flush) / 10mm(Non-Flush)	57
BIDS-M12-N10-N8.0-S124-S	8mm(Non-Flush) / 10mm(Non-Flush)	58
BIDT-M12-F4.0-N8.0-S124-S	4mm(Flush) / 8mm(Non-Flush)	59
BIDH-M12-N4.0-G2-120	4mm(Non-Flush)	60
BIDM-M12-N4.0-PC2-S-S124	4mm(Non-Flush)	61
BIDS-M12-F4.0-PC2-S-S124	4mm(Flush)	62
BIDW-M12-F4.0-UC2-S-S124	4mm(Flush)	63
BIDS-M12-N8.0-PC2-S-S124	8mm(Non-Flush)	64
BIDW-M12-N8.0-UC2-S-S124	8mm(Non-Flush)	65



M12 Cylindrical · Factor 1

1 series · series code, sensing distance, page

BIDF-M12-F4.0-PC2-S124	4mm(Flush)	66

INDUCTIVE



M18 Cylindrical

20 series · series code, sensing distance, page

BIAS-M18-I2F4.0-I2N7.0-M2F4.0-M2N7.0-V2F4.0-V2N7.0-PC2-S124	1.0...4.0mm(Flush) / 1.0...7.0mm…	67
BIDM-M18-F5.0-F8.0-PC2-S	5mm(Flush) / 8mm(Flush)	68
BIDM-M18-F5.0-F8.0-S124-S	5mm(Flush) / 8mm(Flush)	69
BIDS-M18-A14F5.0-A14F8.0-A24F5.0-A24F8.0-U15F5.0-U15F8.0-U25F5.0-U25F8.0-PC2-S	5mm(Flush) / 8mm(Flush)	70
BIDS-M18-A14F5.0-A14F8.0-A24F5.0-A24F8.0-U15F5.0-U15F8.0-U25F5.0-U25F8.0-S124-S	5mm(Flush) / 8mm(Flush)	71
BIDS-M18-A14N16-A24N16-A14N8.0-A24N8.0-U15N16-U25N16-U15N8.0-U25N8.0-PC2-S	8mm(Non-Flush) / 16mm(Non-Flush)	72
BIDS-M18-A14N16-A24N16-A14N8.0-A24N8.0-U15N16-U25N16-U15N8.0-U25N8.0-S124-S	8mm(Non-Flush) / 16mm(Non-Flush)	73
BIDS-M18-F12-F8.0-PC2-S	8mm(Flush) / 12mm(Quasi-Flush)	74
BIDS-M18-F12-F8.0-S124-S	8mm(Flush) / 12mm(Quasi-Flush)	75
BIDS-M18-N16-N20-PC2-S	16mm(Non-Flush) / 20mm(Non-Flush)	76
BIDS-M18-N16-N20-S124-S	16mm(Non-Flush) / 20mm(Non-Flush)	77
BIDT-M18-F8.0-N16-S124-S	8mm(Flush) / 16mm(Non-Flush)	78
BIDH-M18-F5.0-G2-120	5mm(Flush)	79
BIDH-M18-N8.0-G2-120	8mm(Non-Flush)	80
BIDM-M18-N8.0-PC2-S-S124	8mm(Non-Flush)	81
BIDS-M18-F8.0-PC2-S-S124	8mm(Flush)	82
BIDW-M18-F8.0-UC2-S-S124	8mm(Flush)	83
BIDS-M18-N16-PC2-S-S124	16mm(Non-Flush)	84
BIDS-M18-N31N16-P31N16-PC2-S-S124	16mm(Non-Flush)	85
BIDW-M18-N16-UC2-S-S124	16mm(Non-Flush)	86



M18 Cylindrical · Factor 1

1 series · series code, sensing distance, page

BIDF-M18-F8.0-PC2-S124	8mm(Flush)	87



M30 Cylindrical

30 series · series code, sensing distance, page

BIAS-M30-I2F10-I2N14-M2F10-M2N14-V2F10-V2N14-PC2-S124	5.0...10mm(Flush) / 7.0...14mm(N…	88
BIDS-M30-A14F10-A14F16-A24F10-A24F16-U15F10-U15F16-U25F10-U25F16-PC2-S	10mm(Flush) / 16mm(Flush)	89
BIDS-M30-A14F10-A14F16-A24F10-A24F16-U15F10-U15F16-U25F10-U25F16-S124	10mm(Flush) / 16mm(Flush)	90
BIDS-M30-A14N15-A14N25-A24N15-A24N25-U15N15-U15N25-U25N15-U25N25-PC2-S	15mm(Non-Flush) / 25mm(Non-Flush)	91
BIDS-M30-A14N15-A14N25-A24N15-A24N25-U15N15-U15N25-U25N15-U25N25-S124	15mm(Non-Flush) / 25mm(Non-Flush)	92
BIDS-M30-F10-F16-F22-PC2	10mm(Flush) / 16mm(Flush) / 22mm…	93
BIDS-M30-F10-F16-F22-PC2-S	10mm(Flush) / 16mm(Flush) / 22mm…	94
BIDS-M30-F10-F16-F22-S124	10mm(Flush) / 16mm(Flush) / 22mm…	95
BIDS-M30-F10-F16-F22-S124-S	10mm(Flush) / 16mm(Flush) / 22mm…	96
BIDS-M30-F10-F16-PC2-S	10mm(Flush) / 16mm(Flush)	97
BIDS-M30-F10-F16-S124-S	10mm(Flush) / 16mm(Flush)	98
BIDS-M30-N15-N25-N40-PC2	15mm(Non-Flush) / 25mm(Non-Flush…	99
BIDS-M30-N15-N25-N40-PC2-S	15mm(Non-Flush) / 25mm(Non-Flush…	100
BIDS-M30-N15-N25-N40-S124	15mm(Non-Flush) / 25mm(Non-Flush…	101
BIDS-M30-N15-N25-N40-S124-S	15mm(Non-Flush) / 25mm(Non-Flush…	102
BIDS-M30-N15-N25-PC2-S	15mm(Non-Flush) / 25mm(Non-Flush)	103
BIDS-M30-N15-N25-S124-S	15mm(Non-Flush) / 25mm(Non-Flush)	104
BIDS-M30-N31F10-N31F16-P31F10-P31F16-PC2-S	10mm(Flush) / 16mm(Flush)	105
BIDS-M30-N31F10-N31F16-P31F10-P31F16-S124-S	10mm(Flush) / 16mm(Flush)	106
BIDS-M30-N31N15-N31N25-P31N15-P31N25-PC2-S	15mm(Non-Flush) / 25mm(Non-Flush)	107
BIDS-M30-N31N15-N31N25-P31N15-P31N25-S124-S	15mm(Non-Flush) / 25mm(Non-Flush)	108
BIDT-M30-N11F10-S124	10mm(Flush) / 15mm(Non-Flush)	109
BIDH-M30-F10-G2-120	10mm(Flush)	110
BIDM-M30-F10-PC2-S-S124	10mm(Flush)	111
BIDW-M30-F10-S124-S	10mm(Flush)	112
BIDW-M30-F10-UC2-S	10mm(Flush)	113
BIDH-M30-N15-G2-120	15mm(Non-Flush)	114
BIDM-M30-N15-PC2-S-S124	15mm(Non-Flush)	115
BIDW-M30-N15-S124-S	15mm(Non-Flush)	116
BIDW-M30-N15-UC2-S	15mm(Non-Flush)	117



M30 Cylindrical · Factor 1

1 series · series code, sensing distance, page

BIDF-M30-F10-PC2-S124	10mm(Flush)	118



Q5 Rectangular

1 series · series code, sensing distance, page

BIDS-R05-F0.8-F1.2-PC2-Z83	0.8mm(Flush) / 1.2mm(Flush)	119

INDUCTIVE



Q8 Rectangular

4 series · series code, sensing distance, page

BIDS-R08-N11F2.0-PC2	2mm(Flush) / 3mm(Quasi-Flush)	120
BIDS-R08-N11F2.0-S83	2mm(Flush) / 3mm(Quasi-Flush)	121
BIDS-R08-N11F2.0-Z83	2mm(Flush) / 3mm(Quasi-Flush)	122
BIDP-R08-N2.5-PC2-T	2.5mm(Non-Flush)	123



Q10 / Q12 / Q15 Rectangular

1 series · series code, sensing distance, page

BIDP-R10-F2.0-F4.0-N5.0-PC2	2mm(Flush) / 4mm(Flush) / 5mm(No…	124



Q17 / Q18 / Q25 Rectangular

1 series · series code, sensing distance, page

BIDP-R17-F5.0-N10-PC2	5mm(Flush) / 10mm(Non-Flush)	125



Q18 / Q25 Rectangular

1 series · series code, sensing distance, page

BIDP-R18-F2.0-F4.0-PC2	4mm(Flush) / 2mm(Flush)	126



Q28 Rectangular

3 series · series code, sensing distance, page

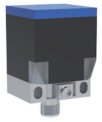
BIDP-R28-F2.0-F3.0-PC2-T	2mm(Flush) / 3mm(Quasi-Flush)	127
BIDP-R28-N4.0-N6.0-PC2-T	4mm(Non-Flush) / 6mm(Non-Flush)	128
BIDP-R28-F2.0-PC2-T	2mm(Flush)	129



Q40 Rectangular

6 series · series code, sensing distance, page

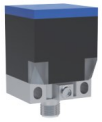
BIDP-R40-A14N20-A14N30-A24N20-A24N30-U15N20-U15N30-U25N20-U25N30-T-S124	20mm(Non-Flush) / 30mm(Non-Flush)	130
BIDP-R40-F15-F20-F30-N20-N30-N40-S124	15mm(Flush) / 20mm(Flush) / 30mm…	131
BIDP-R40-F15-F20-F30-N20-N30-N40-T	15mm(Flush) / 20mm(Flush) / 30mm…	132
BIDP-R40-F15-N20-N30-T-S124	15mm(Flush) / 20mm(Non-Flush)…	133
BIDP-R40-N31F15-N31N20-N31N30-P31F15-P31N20-P31N30-T-S124	15mm(Flush) / 20mm(Non-Flush)…	134
BIDP-R40-A14F15-A24F15-U15F15-U25F15-T-S124	15mm(Flush)	135



Q40S / Q80 Rectangular

4 series · series code, sensing distance, page

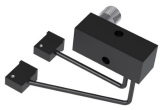
BIDP-R40-A14F15-S124-S	15mm(Flush) / 20mm(Non-Flush)…	136
BIDP-R40-D13F15-S124-S	15mm(Flush) / 20mm(Non-Flush)…	137
BIDP-R40-N11F20-S124-S	20mm(Flush) / 40mm(Non-Flush)…	138
BIDP-R40-N31F15-S124-S	15mm(Flush) / 20(Non-Flush) / 30…	139



Q40S Rectangular

1 series · series code, sensing distance, page

BIAS-R40-M2N25-S124-S	5...25mm(Non-Flush)	140



Q45 Rectangular

1 series · series code, sensing distance, page

BIDP-R45-N2.0-S124	2mm(Non-Flush)	141



R6 / R10 / R12 Ring Type

1 series · series code, sensing distance, page

BIDR-R20-N10-N12-N15-N30-N6.0-PC2		142



R10 / R15 / R20 Ring Type

3 series · series code, sensing distance, page

BIDR-R20-N10-N15-N20-N25-S124-ADJ		143
BIDR-R20-N10-N15-N20-PC2-ADJ-T		144
BIDR-R20-N10-N15-N20-S124-ADJ-T		145

INDUCTIVE

Φ3 Cylindrical Inductive Proximity Sensor

BIDS-Q03-F0.6-PC2-Z83 series · Sensing Distance: 0.6mm(Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



① ②

KEY SPECIFICATIONS

SENSING DISTANCE **0.6mm(Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **2000Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **Φ3mm**	INGRESS PROTECTION **IP67**

FEATURES

- Miniature proximity sensor Micro IC circuit Can be installed in narrow and confined spaces

MODEL CODES

Output Type	①	②
NPN N.O	**BIDS-Q03-N11F0.6-PC2** SKU 10102905	**BIDS-Q03-N11F0.6-Z83** SKU 10102909
NPN N.C	**BIDS-Q03-N21F0.6-PC2** SKU 10102906	**BIDS-Q03-N21F0.6-Z83** SKU 10102910
PNP N.O	**BIDS-Q03-P11F0.6-PC2** SKU 10102907	**BIDS-Q03-P11F0.6-Z83** SKU 10102911
PNP N.C	**BIDS-Q03-P21F0.6-PC2** SKU 10102908	**BIDS-Q03-P21F0.6-Z83** SKU 10102912

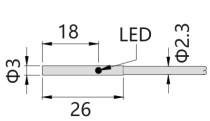
TECHNICAL DATA

Exterior structure	Φ3mm
Sensing distance	0.6mm(Flush)
Switching frequency	2000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	100mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

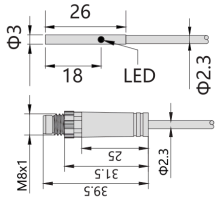
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Stainless steel
Sensing face material	POM
Connection	①: 2m PVC Cable, 3*0.15mm² ②: M8, 0.3m Cable with connector
Accessories	①: None ②: M8 3 pin cable with connector

DIMENSIONAL DRAWINGS

Φ3X26 Cable ①



Φ3X26 Cable with connector ②



All dimensions in mm.

M4 Cylindrical Inductive Proximity Sensor

BIDS-M04-F0.6-PC2-Z83 series · Sensing Distance: 0.6mm(Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



①



②

KEY SPECIFICATIONS

SENSING DISTANCE **0.6mm(Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **2000Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **M4*0.5mm**	INGRESS PROTECTION **IP67**

FEATURES

- Miniature proximity sensor Micro IC circuit Suitable for high precision equipment

MODEL CODES

Output Type	①	②
NPN N.O	**BIDS-M04-N11F0.6-PC2** SKU 10102913	**BIDS-M04-N11F0.6-Z83** SKU 10102917
NPN N.C	**BIDS-M04-N21F0.6-PC2** SKU 10102914	**BIDS-M04-N21F0.6-Z83** SKU 10102918
PNP N.O	**BIDS-M04-P11F0.6-PC2** SKU 10102915	**BIDS-M04-P11F0.6-Z83** SKU 10102919
PNP N.C	**BIDS-M04-P21F0.6-PC2** SKU 10102916	**BIDS-M04-P21F0.6-Z83** SKU 10102920

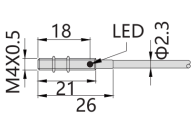
TECHNICAL DATA

Exterior structure	M4*0.5mm
Sensing distance	0.6mm(Flush)
Switching frequency	2000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	100mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

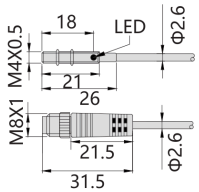
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Stainless steel
Sensing face material	POM
Connection	①: 2m PVC Cable, 3*0.15mm² ②: M8, 0.3m Cable with connector
Accessories	①: None ②: M8 3 pin cable with connector

DIMENSIONAL DRAWINGS

M4X26 Cable ①



M4X26 Cable with connector ②

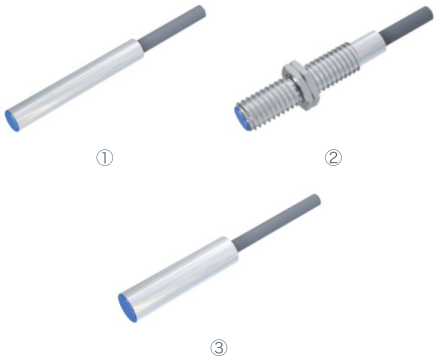


All dimensions in mm.

Φ4 / M5 / Φ6.5 Cylindrical Inductive Proximity Sensor

BIDS-Q04-M05-Q6.5-NA10F0.8-NA10F1.0-PC2 series · Operating Voltage: 6...12VDC(±10%) · Switching Freq.: 2000Hz / 1000Hz

IP67
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **6...12VDC(±10%)**	SWITCHING FREQ. **2000Hz / 1000Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **Φ4mm / M5*1mm / Φ6.5mm**
INGRESS PROTECTION **IP67**	

FEATURES

- NAMUR DC 2 wire
- Switching output

MODEL CODES

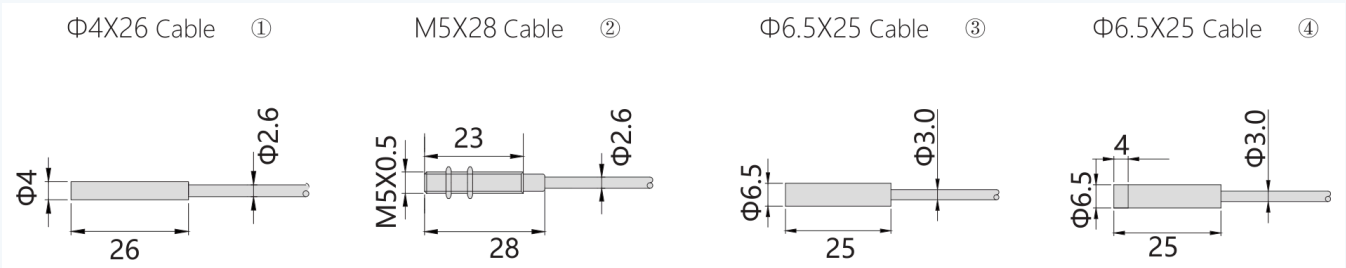
Output Type	Φ4mm ①	M5*1mm ②	Φ6.5mm ③
NAMUR	**BIDS-Q04-NA10F0.8-PC2** SKU 10102929	**BIDS-M05-NA10F0.8-PC2** SKU 10102946	**BIDS-Q6.5-NA10F1.0-PC2** SKU 10103007

TECHNICAL DATA

Exterior structure	Φ4mm M5*1mm Φ6.5mm
Sensing distance	**Φ4mm:** 0.8mm(Flush) **M5*1mm:** 0.8mm(Flush) **Φ6.5mm:** 1mm(Flush)
Switching frequency	**Φ4mm:** 2000Hz **M5*1mm:** 2000Hz **Φ6.5mm:** 1000Hz
Operating voltage	6...12VDC(±10%)
Load current	>2.2mA(OFF),<1.1mA(ON)
Hysteresis	<15%(Sr)
Repeatability	<2.0%(Sr)
Power-on delay	≤10ms
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	None
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Stainless steel
Sensing face material	POM
Connection	**Φ4mm:** 2m PVC Cable, 2*0.18mm² **M5*1mm:** 2m PVC Cable, 2*0.18mm² **Φ6.5mm:** 2m PVC Cable, 2*0.25mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

Φ4 Cylindrical Inductive Proximity Sensor

BIDS-Q04-F0.8-F1.2-PC2-Z83-S83 series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 2000Hz

IP67
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **2000Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **Φ4mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Miniature proximity sensor Micro IC circuit Suitable for high precision equipment

MODEL CODES

Output Type	①	②	③	④	⑤	⑥
NPN N.O	BIDS-Q04-N11F0.8-PC2 SKU 10102921	BIDS-Q04-N11F1.2-PC2 SKU 10102934	BIDS-Q04-N11F0.8-Z83 SKU 10102925	BIDS-Q04-N11F1.2-Z83 SKU 10102938	BIDS-Q04-N11F0.8-S83 SKU 10102930	BIDS-Q04-N11F1.2-S83 SKU 10102942
NPN N.C	BIDS-Q04-N21F0.8-PC2 SKU 10102922	BIDS-Q04-N21F1.2-PC2 SKU 10102935	BIDS-Q04-N21F0.8-Z83 SKU 10102926	BIDS-Q04-N21F1.2-Z83 SKU 10102939	BIDS-Q04-N21F0.8-S83 SKU 10102931	BIDS-Q04-N21F1.2-S83 SKU 10102943
PNP N.O	BIDS-Q04-P11F0.8-PC2 SKU 10102923	BIDS-Q04-P11F1.2-PC2 SKU 10102936	BIDS-Q04-P11F0.8-Z83 SKU 10102927	BIDS-Q04-P11F1.2-Z83 SKU 10102940	BIDS-Q04-P11F0.8-S83 SKU 10102932	BIDS-Q04-P11F1.2-S83 SKU 10102944
PNP N.C	BIDS-Q04-P21F0.8-PC2 SKU 10102924	BIDS-Q04-P21F1.2-PC2 SKU 10102937	BIDS-Q04-P21F0.8-Z83 SKU 10102928	BIDS-Q04-P21F1.2-Z83 SKU 10102941	BIDS-Q04-P21F0.8-S83 SKU 10102933	BIDS-Q04-P21F1.2-S83 SKU 10102945

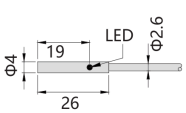
TECHNICAL DATA

Exterior structure	Φ4mm
Sensing distance	①: 0.8mm(Flush) ②: 1.2mm(Flush) ③: 0.8mm(Flush) ④: 1.2mm(Flush) ⑤: 0.8mm(Flush) ⑥: 1.2mm(Flush)
Switching frequency	2000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	100mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C

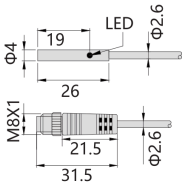
Ingress protection	IP67
Housing material	Stainless steel
Sensing face material	POM
Connection	①: 2m PVC Cable, 3*0.15mm² ②: 2m PVC Cable, 3*0.15mm² ③: M8, 0.3m Cable with connector ④: M8, 0.3m Cable with connector ⑤: M8 Connector ⑥: M8 Connector
Accessories	①: None ②: None ③: M8 3 pin cable with connector ④: M8 3 pin cable with connector ⑤: M8 3 pin cable with connector ⑥: M8 3 pin cable with connector

DIMENSIONAL DRAWINGS

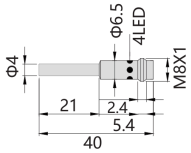
Φ4X26 Cable ①②



Φ4X26 Cable with connector ③④



Φ4X40 Connector ⑤⑥



All dimensions in mm.

M5 Cylindrical Inductive Proximity Sensor

BIDS-M05-F0.8-F1.2-PC2-S series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 2000Hz

IP67
Ingress Protection



①② ③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **2000Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M5*0.5mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Miniature proximity sensor Micro IC circuit Can be installed in narrow and confined spaces

MODEL CODES

Output Type	①	②	③	④
NPN N.O	**BIDS-M05-N11F0.8-PC2** SKU 10102947	**BIDS-M05-N11F1.2-PC2** SKU 10102987	**BIDS-M05-N11F0.8-PC2-S** SKU 10102951	**BIDS-M05-N11F1.2-PC2-S** SKU 10102991
NPN N.C	**BIDS-M05-N21F0.8-PC2** SKU 10102948	**BIDS-M05-N21F1.2-PC2** SKU 10102988	**BIDS-M05-N21F0.8-PC2-S** SKU 10102952	**BIDS-M05-N21F1.2-PC2-S** SKU 10102992
PNP N.O	**BIDS-M05-P11F0.8-PC2** SKU 10102949	**BIDS-M05-P11F1.2-PC2** SKU 10102989	**BIDS-M05-P11F0.8-PC2-S** SKU 10102953	**BIDS-M05-P11F1.2-PC2-S** SKU 10102993
PNP N.C	**BIDS-M05-P21F0.8-PC2** SKU 10102950	**BIDS-M05-P21F1.2-PC2** SKU 10102990	**BIDS-M05-P21F0.8-PC2-S** SKU 10102954	**BIDS-M05-P21F1.2-PC2-S** SKU 10102994

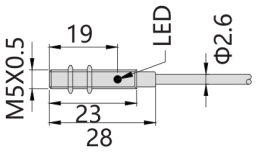
TECHNICAL DATA

Exterior structure	M5*0.5mm
Sensing distance	①: 0.8mm(Flush) ②: 1.2mm(Flush) ③: 0.8mm(Flush) ④: 1.2mm(Flush)
Switching frequency	2000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	100mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)

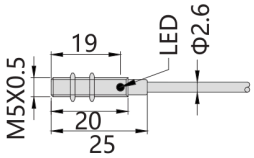
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Stainless steel
Sensing face material	POM
Connection	2m PVC Cable, 3*0.15mm²
Accessories	None

DIMENSIONAL DRAWINGS

M5X28 Cable ①②



M5X25 Cable ③④



All dimensions in mm.

M5 Cylindrical Inductive Proximity Sensor

BIDS-M05-F0.8-F1.2-S83-Z83-S series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 2000Hz

IP67
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **2000Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M5*0.5mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Miniature proximity sensor Micro IC circuit Can be installed in narrow and confined spaces

MODEL CODES

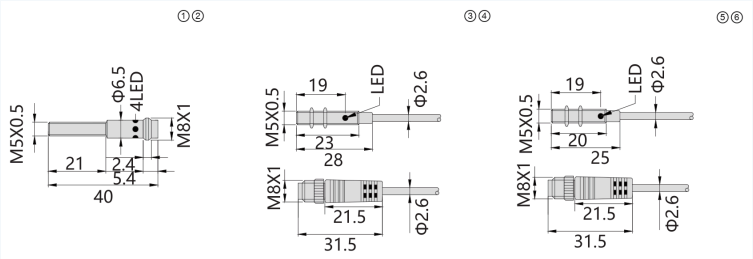
Output Type	①	②	③	④	⑤	⑥
NPN N.O	BIDS-M05-N11F0.8-S83 SKU 10102955	BIDS-M05-N11F1.2-S83 SKU 10102995	BIDS-M05-N11F0.8-Z83 SKU 10102959	BIDS-M05-N11F1.2-Z83 SKU 10102999	BIDS-M05-N11F0.8-Z83-S SKU 10102963	BIDS-M05-N11F1.2-Z83-S SKU 10103003
NPN N.C	BIDS-M05-N21F0.8-S83 SKU 10102956	BIDS-M05-N21F1.2-S83 SKU 10102996	BIDS-M05-N21F0.8-Z83 SKU 10102960	BIDS-M05-N21F1.2-Z83 SKU 10103000	BIDS-M05-N21F0.8-Z83-S SKU 10102964	BIDS-M05-N21F1.2-Z83-S SKU 10103004
PNP N.O	BIDS-M05-P11F0.8-S83 SKU 10102957	BIDS-M05-P11F1.2-S83 SKU 10102997	BIDS-M05-P11F0.8-Z83 SKU 10102961	BIDS-M05-P11F1.2-Z83 SKU 10103001	BIDS-M05-P11F0.8-Z83-S SKU 10102965	BIDS-M05-P11F1.2-Z83-S SKU 10103005
PNP N.C	BIDS-M05-P21F0.8-S83 SKU 10102958	BIDS-M05-P21F1.2-S83 SKU 10102998	BIDS-M05-P21F0.8-Z83 SKU 10102962	BIDS-M05-P21F1.2-Z83 SKU 10103002	BIDS-M05-P21F0.8-Z83-S SKU 10102966	BIDS-M05-P21F1.2-Z83-S SKU 10103006

TECHNICAL DATA

Exterior structure	M5*0.5mm
Sensing distance	①: 0.8mm(Flush) ②: 1.2mm(Flush) ③: 0.8mm(Flush) ④: 1.2mm(Flush) ⑤: 0.8mm(Flush) ⑥: 1.2mm(Flush)
Switching frequency	2000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	100mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Stainless steel
Sensing face material	POM
Connection	①: M8 Connector ②: M8 Connector ③: M8, 0.3m Cable with connector ④: M8, 0.3m Cable with connector ⑤: M8, 0.3m Cable with connector ⑥: M8, 0.3m Cable with connector
Accessories	M8 3 pin cable with connector

DIMENSIONAL DRAWINGS

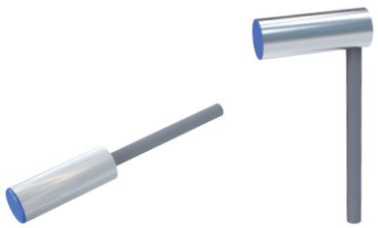


All dimensions in mm.

Φ6.5 Cylindrical Inductive Proximity Sensor

BIDS-Q6.5-F2.0-F3.0-PC2-R-T series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 2000Hz / 1000Hz

IP67
Ingress Protection



①② ③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **2000Hz / 1000Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **Φ6.5mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Flush mounting
- High response frequency
- Ultra-short installation size

MODEL CODES

Output Type	①	②	③	④
NPN N.O	BIDS-Q6.5-N11F2.0-PC2-R SKU 10103017	BIDS-Q6.5-N11F3.0-PC2-R SKU 10103069	BIDS-Q6.5-N11F2.0-PC2-T SKU 10103021	BIDS-Q6.5-N11F3.0-PC2-T SKU 10103073
NPN N.C	BIDS-Q6.5-N21F2.0-PC2-R SKU 10103018	BIDS-Q6.5-N21F3.0-PC2-R SKU 10103070	BIDS-Q6.5-N21F2.0-PC2-T SKU 10103022	BIDS-Q6.5-N21F3.0-PC2-T SKU 10103074
PNP N.O	BIDS-Q6.5-P11F2.0-PC2-R SKU 10103019	BIDS-Q6.5-P11F3.0-PC2-R SKU 10103071	BIDS-Q6.5-P11F2.0-PC2-T SKU 10103023	BIDS-Q6.5-P11F3.0-PC2-T SKU 10103075
PNP N.C	BIDS-Q6.5-P21F2.0-PC2-R SKU 10103020	BIDS-Q6.5-P21F3.0-PC2-R SKU 10103072	BIDS-Q6.5-P21F2.0-PC2-T SKU 10103024	BIDS-Q6.5-P21F3.0-PC2-T SKU 10103076

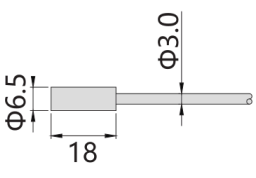
TECHNICAL DATA

Exterior structure	Φ6.5mm
Sensing distance	①: 2mm(Flush) ②: 3mm(Quasi-Flush) ③: 2mm(Flush) ④: 3mm(Quasi-Flush)
Switching frequency	①: 2000Hz ②: 1000Hz ③: 2000Hz ④: 1000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	100mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)

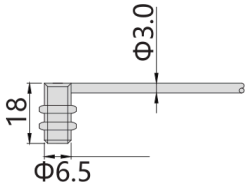
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Stainless steel
Sensing face material	POM
Connection	2m PVC Cable, 3*0.18mm²
Accessories	None

DIMENSIONAL DRAWINGS

Φ6.5X18 Cable ①②



Φ6.5X18 Side out cable ③④



All dimensions in mm.

Φ6.5 Cylindrical Inductive Proximity Sensor

BIDS-Q6.5-F2.0-F3.0-PC2-S series · Operating Voltage: 10...30VDC(±10%) · Ambient Temp.: -25...70°C

IP67
Ingress Protection



①②



③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	AMBIENT TEMP. **-25...70°C**
HOUSING **Φ6.5mm**	INGRESS PROTECTION **IP67**

FEATURES

- Flush mounting
- High response frequency
- Multiple connection options available

MODEL CODES

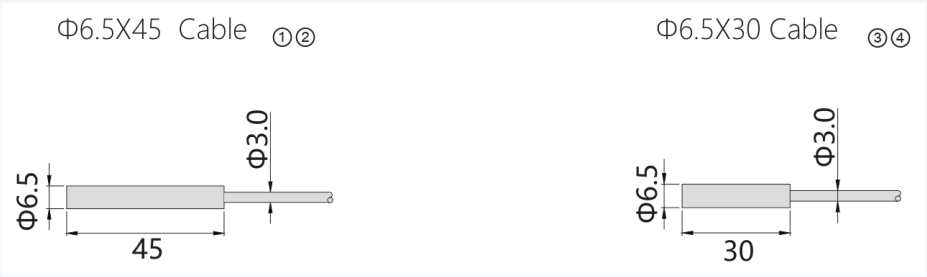
Output Type	①	②	③	④
NPN N.O	BIDS-Q6.5-N11F2.0-PC2 SKU 10103009	BIDS-Q6.5-N11F3.0-PC2 SKU 10103049	BIDS-Q6.5-N11F2.0-PC2-S SKU 10103013	BIDS-Q6.5-N11F3.0-PC2-S SKU 10103053
NPN N.C	BIDS-Q6.5-N21F2.0-PC2 SKU 10103010	BIDS-Q6.5-N21F3.0-PC2 SKU 10103050	BIDS-Q6.5-N21F2.0-PC2-S SKU 10103014	BIDS-Q6.5-N21F3.0-PC2-S SKU 10103054
PNP N.O	BIDS-Q6.5-P11F2.0-PC2 SKU 10103011	BIDS-Q6.5-P11F3.0-PC2 SKU 10103051	BIDS-Q6.5-P11F2.0-PC2-S SKU 10103015	BIDS-Q6.5-P11F3.0-PC2-S SKU 10103055
PNP N.C	BIDS-Q6.5-P21F2.0-PC2 SKU 10103012	BIDS-Q6.5-P21F3.0-PC2 SKU 10103052	BIDS-Q6.5-P21F2.0-PC2-S SKU 10103016	BIDS-Q6.5-P21F3.0-PC2-S SKU 10103056

TECHNICAL DATA

Exterior structure	Φ6.5mm
Sensing distance	①: 2mm(Flush) ②: 3mm(Quasi-Flush) ③: 2mm(Flush) ④: 3mm(Quasi-Flush)
Switching frequency	①: 3000Hz ②: 1000Hz ③: 2000Hz ④: 1000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	100mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)

Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Stainless steel
Sensing face material	POM
Connection	2m PVC Cable, 3*0.18mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

Φ6.5 Cylindrical Inductive Proximity Sensor

BIDS-Q6.5-F2.0-F3.0-S83-S-R series · Operating Voltage: 10...30VDC(±10%) · Ambient Temp.: -25...70°C

IP67
Ingress Protection



①②



③④



⑤⑥

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	AMBIENT TEMP. **-25...70°C**
HOUSING **Φ6.5mm**	INGRESS PROTECTION **IP67**

FEATURES

- Flush mounting
- High response frequency
- Multiple connection options available

MODEL CODES

Output Type	①	②	③	④	⑤	⑥
NPN N.O	BIDS-Q6.5-N11F2.0-S83 SKU 10103025	BIDS-Q6.5-N11F3.0-S83 SKU 10103057	BIDS-Q6.5-N11F2.0-S83-S SKU 10103029	BIDS-Q6.5-N11F3.0-S83-S SKU 10103061	BIDS-Q6.5-N11F2.0-S83-R SKU 10103033	BIDS-Q6.5-N11F3.0-S83-R SKU 10103065
NPN N.C	BIDS-Q6.5-N21F2.0-S83 SKU 10103026	BIDS-Q6.5-N21F3.0-S83 SKU 10103058	BIDS-Q6.5-N21F2.0-S83-S SKU 10103030	BIDS-Q6.5-N21F3.0-S83-S SKU 10103062	BIDS-Q6.5-N21F2.0-S83-R SKU 10103034	BIDS-Q6.5-N21F3.0-S83-R SKU 10103066
PNP N.O	BIDS-Q6.5-P11F2.0-S83 SKU 10103027	BIDS-Q6.5-P11F3.0-S83 SKU 10103059	BIDS-Q6.5-P11F2.0-S83-S SKU 10103031	BIDS-Q6.5-P11F3.0-S83-S SKU 10103063	BIDS-Q6.5-P11F2.0-S83-R SKU 10103035	BIDS-Q6.5-P11F3.0-S83-R SKU 10103067
PNP N.C	BIDS-Q6.5-P21F2.0-S83 SKU 10103028	BIDS-Q6.5-P21F3.0-S83 SKU 10103060	BIDS-Q6.5-P21F2.0-S83-S SKU 10103032	BIDS-Q6.5-P21F3.0-S83-S SKU 10103064	BIDS-Q6.5-P21F2.0-S83-R SKU 10103036	BIDS-Q6.5-P21F3.0-S83-R SKU 10103068

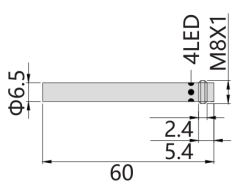
TECHNICAL DATA

Exterior structure	Φ6.5mm
Sensing distance	①: 2mm(Flush) ②: 3mm(Quasi-Flush) ③: 2mm(Flush) ④: 3mm(Quasi-Flush) ⑤: 2mm(Flush) ⑥: 3mm(Quasi-Flush)
Switching frequency	①: 3000Hz ②: 1000Hz ③: 2000Hz ④: 1000Hz ⑤: 2000Hz ⑥: 1000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	100mA
Leakage current	≤0.01mA

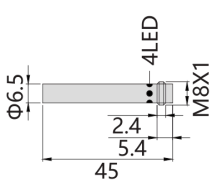
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Stainless steel
Sensing face material	POM
Connection	M8 Connector
Accessories	M8 3 pin cable with connector

DIMENSIONAL DRAWINGS

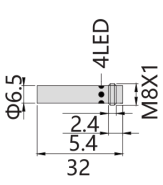
Φ6.5X60 Connector ①②



Φ6.5X45 Connector ③④



Φ6.5X32 Connector ⑤⑥



All dimensions in mm.

Φ6.5 Cylindrical Inductive Proximity Sensor

BIDS-Q6.5-F2.0-F3.0-Z83-R-T series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 2000Hz / 1000Hz

IP67
Ingress Protection



①② ③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **2000Hz / 1000Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **Φ6.5mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Flush mounting
- High response frequency
- Super-short installation size

MODEL CODES

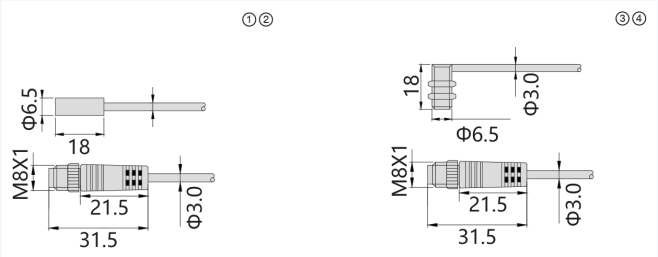
Output Type	①	②	③	④
NPN N.O	BIDS-Q6.5-N11F2.0-Z83-R SKU 10103037	BIDS-Q6.5-N11F3.0-Z83-R SKU 10103077	BIDS-Q6.5-N11F2.0-Z83-T SKU 10103041	BIDS-Q6.5-N11F3.0-Z83-T SKU 10103081
NPN N.C	BIDS-Q6.5-N21F2.0-Z83-R SKU 10103038	BIDS-Q6.5-N21F3.0-Z83-R SKU 10103078	BIDS-Q6.5-N21F2.0-Z83-T SKU 10103042	BIDS-Q6.5-N21F3.0-Z83-T SKU 10103082
PNP N.O	BIDS-Q6.5-P11F2.0-Z83-R SKU 10103039	BIDS-Q6.5-P11F3.0-Z83-R SKU 10103079	BIDS-Q6.5-P11F2.0-Z83-T SKU 10103043	BIDS-Q6.5-P11F3.0-Z83-T SKU 10103083
PNP N.C	BIDS-Q6.5-P21F2.0-Z83-R SKU 10103040	BIDS-Q6.5-P21F3.0-Z83-R SKU 10103080	BIDS-Q6.5-P21F2.0-Z83-T SKU 10103044	BIDS-Q6.5-P21F3.0-Z83-T SKU 10103084

TECHNICAL DATA

Exterior structure	Φ6.5mm
Sensing distance	①: 2mm(Flush) ②: 3mm(Quasi-Flush) ③: 2mm(Flush) ④: 3mm(Quasi-Flush)
Switching frequency	①: 2000Hz ②: 1000Hz ③: 2000Hz ④: 1000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	100mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)

Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Stainless steel
Sensing face material	POM
Connection	M8, 0.3m Cable with connector
Accessories	M8 3 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

Φ6.5 Cylindrical Inductive Proximity Sensor

BIDS-Q6.5-N4.0-N6.0-PC2-S series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 1000Hz / 500Hz

IP67
Ingress Protection



①②



③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **1000Hz / 500Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **Φ6.5mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Non-flush mounting
- Middle and long distance detection
- Multiple connection options available

MODEL CODES

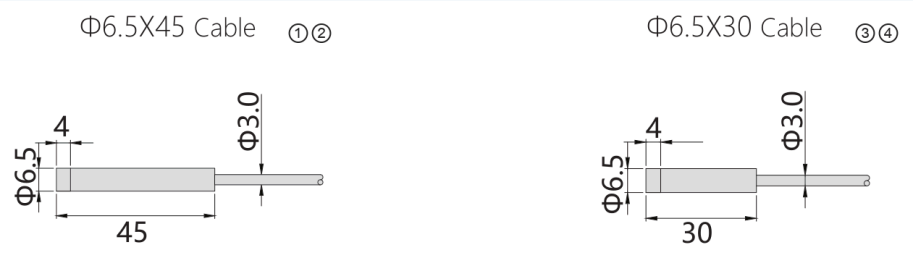
Output Type	①	②	③	④
NPN N.O	**BIDS-Q6.5-N11N4.0-PC2** SKU 10103085	**BIDS-Q6.5-N11N6.0-PC2** SKU 10103105	**BIDS-Q6.5-N11N4.0-PC2-S** SKU 10103089	**BIDS-Q6.5-N11N6.0-PC2-S** SKU 10103109
NPN N.C	**BIDS-Q6.5-N21N4.0-PC2** SKU 10103086	**BIDS-Q6.5-N21N6.0-PC2** SKU 10103106	**BIDS-Q6.5-N21N4.0-PC2-S** SKU 10103090	**BIDS-Q6.5-N21N6.0-PC2-S** SKU 10103110
PNP N.O	**BIDS-Q6.5-P11N4.0-PC2** SKU 10103087	**BIDS-Q6.5-P11N6.0-PC2** SKU 10103107	**BIDS-Q6.5-P11N4.0-PC2-S** SKU 10103091	**BIDS-Q6.5-P11N6.0-PC2-S** SKU 10103111
PNP N.C	**BIDS-Q6.5-P21N4.0-PC2** SKU 10103088	**BIDS-Q6.5-P21N6.0-PC2** SKU 10103108	**BIDS-Q6.5-P21N4.0-PC2-S** SKU 10103092	**BIDS-Q6.5-P21N6.0-PC2-S** SKU 10103112

TECHNICAL DATA

Exterior structure	Φ6.5mm
Sensing distance	①: 4mm(Non-Flush) ②: 6mm(Non-Flush) ③: 4mm(Non-Flush) ④: 6mm(Non-Flush)
Switching frequency	①: 1000Hz ②: 500Hz ③: 1000Hz ④: 500Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	100mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)

Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Stainless steel
Sensing face material	POM
Connection	2m PVC Cable, 3*0.18mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

Φ6.5 Cylindrical Inductive Proximity Sensor

BIDS-Q6.5-N4.0-N6.0-S83-S series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 1000Hz / 500Hz

IP67
Ingress Protection



①②



③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **1000Hz / 500Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **Φ6.5mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Non-flush mounting
- Middle and long distance detection
- Multiple connection options available

MODEL CODES

Output Type	①	②	③	④
NPN N.O	**BIDS-Q6.5-N11N4.0-S83** SKU 10103093	**BIDS-Q6.5-N11N6.0-S83** SKU 10103113	**BIDS-Q6.5-N11N4.0-S83-S** SKU 10103097	**BIDS-Q6.5-N11N6.0-S83-S** SKU 10103117
NPN N.C	**BIDS-Q6.5-N21N4.0-S83** SKU 10103094	**BIDS-Q6.5-N21N6.0-S83** SKU 10103114	**BIDS-Q6.5-N21N4.0-S83-S** SKU 10103098	**BIDS-Q6.5-N21N6.0-S83-S** SKU 10103118
PNP N.O	**BIDS-Q6.5-P11N4.0-S83** SKU 10103095	**BIDS-Q6.5-P11N6.0-S83** SKU 10103115	**BIDS-Q6.5-P11N4.0-S83-S** SKU 10103099	**BIDS-Q6.5-P11N6.0-S83-S** SKU 10103119
PNP N.C	**BIDS-Q6.5-P21N4.0-S83** SKU 10103096	**BIDS-Q6.5-P21N6.0-S83** SKU 10103116	**BIDS-Q6.5-P21N4.0-S83-S** SKU 10103100	**BIDS-Q6.5-P21N6.0-S83-S** SKU 10103120

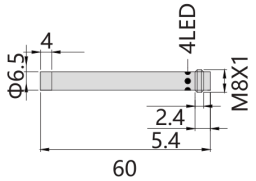
TECHNICAL DATA

Exterior structure	Φ6.5mm
Sensing distance	①: 4mm(Non-Flush) ②: 6mm(Non-Flush) ③: 4mm(Non-Flush) ④: 6mm(Non-Flush)
Switching frequency	①: 1000Hz ②: 500Hz ③: 1000Hz ④: 500Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	100mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)

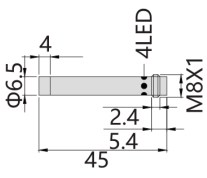
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Stainless steel
Sensing face material	POM
Connection	M8 Connector
Accessories	M8 3 pin cable with connector

DIMENSIONAL DRAWINGS

Φ6.5X60 Connector ①②



Φ6.5X45 Connector ③④



All dimensions in mm.

Φ6.5 Cylindrical Inductive Proximity Sensor

BIDS-Q6.5-F2.0-PC2-S83 series · Sensing Distance: 2mm(Flush) · Operating Voltage: 10...60VDC(±10%)

IP67
Ingress Protection



① ②

KEY SPECIFICATIONS

SENSING DISTANCE **2mm(Flush)**	OPERATING VOLTAGE **10...60VDC(±10%)**
SWITCHING FREQ. **1000Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **Φ6.5mm**	INGRESS PROTECTION **IP67**

FEATURES

- Flush mounting
- Mid-range detection
- Multiple connection options available

MODEL CODES

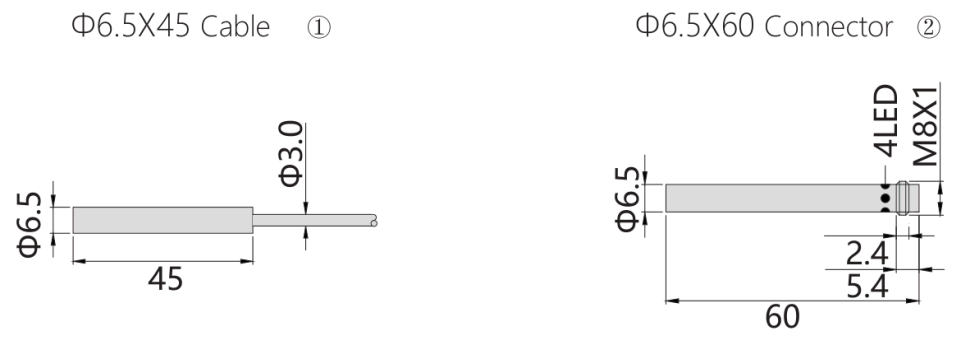
Output Type	①	②
N.O	**BIDS-Q6.5-D13F2.0-PC2** SKU 10103045	**BIDS-Q6.5-D13F2.0-S83** SKU 10103047
N.C	**BIDS-Q6.5-D23F2.0-PC2** SKU 10103046	**BIDS-Q6.5-D23F2.0-S83** SKU 10103048

TECHNICAL DATA

Exterior structure	Φ6.5mm
Sensing distance	2mm(Flush)
Switching frequency	1000Hz
Operating voltage	10...60VDC(±10%)
Voltage drop	≤4.5V
Load current	100mA
Residual signal	≤0.5mA
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Stainless steel
Sensing face material	POM
Connection	①: 2m PVC Cable, 2*0.25mm² ②: M8 Connector
Accessories	①: None ②: M8 3 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

Φ6.5 Cylindrical Inductive Proximity Sensor

BIDS-Q6.5-N4.0-PC2-S83 series · Sensing Distance: 4mm(Non-Flush) · Operating Voltage: 10...60VDC(±10%)

IP67
Ingress Protection



①



②

KEY SPECIFICATIONS

SENSING DISTANCE **4mm(Non-Flush)**	OPERATING VOLTAGE **10...60VDC(±10%)**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **Φ6.5mm**	INGRESS PROTECTION **IP67**

FEATURES

- Non-flush mounting
- Mid-range detection
- Multiple connection options available

MODEL CODES

Output Type	①	②
N.O	**BIDS-Q6.5-D13N4.0-PC2** SKU 10103101	**BIDS-Q6.5-D13N4.0-S83** SKU 10103103
N.C	**BIDS-Q6.5-D23N4.0-PC2** SKU 10103102	**BIDS-Q6.5-D23N4.0-S83** SKU 10103104

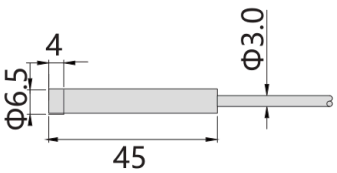
TECHNICAL DATA

Exterior structure	Φ6.5mm
Sensing distance	4mm(Non-Flush)
Switching frequency	500Hz
Operating voltage	10...60VDC(±10%)
Voltage drop	≤4.5V
Load current	100mA
Residual signal	≤0.5mA
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

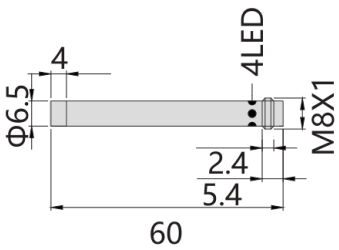
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Stainless steel
Sensing face material	POM
Connection	①: 2m PVC Cable, 2*0.25mm² ②: M8 Connector
Accessories	①: None ②: M8 3 pin cable with connector

DIMENSIONAL DRAWINGS

Φ6.5X45 Cable ①



Φ6.5X60 Connector ②

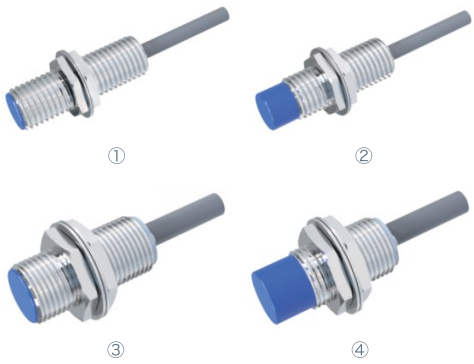


All dimensions in mm.

M8 / M12 Cylindrical Inductive Proximity Sensor

BIDS-M08-M12-NA10F1.0-NA10F2.0-NA10N2.0-NA10N4.0-PC2 series · Operating Voltage: 6...12VDC(±10%) · Switching Freq.: 2000Hz / 1000Hz

IP67
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **6...12VDC(±10%)**	SWITCHING FREQ. **2000Hz / 1000Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M8*1mm / M12*1mm**
INGRESS PROTECTION **IP67**	

FEATURES

- NAMUR DC 2 wire
- Switching output

MODEL CODES

Output Type	①	②	③	④
NAMUR	**BIDS-M08-NA10F1.0-PC2** SKU 10103121	**BIDS-M08-NA10N2.0-PC2** SKU 10103170	**BIDS-M12-NA10F2.0-PC2** SKU 10103399	**BIDS-M12-NA10N4.0-PC2** SKU 10103438

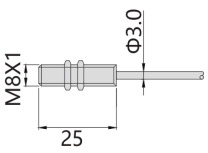
TECHNICAL DATA

Exterior structure	①: M8*1mm ②: M8*1mm ③: M12*1mm ④: M12*1mm
Sensing distance	①: 1mm(Flush) ②: 2mm(Non-Flush) ③: 2mm(Flush) ④: 4mm(Non-Flush)
Switching frequency	①: 2000Hz ②: 1000Hz ③: 2000Hz ④: 1000Hz
Operating voltage	6...12VDC(±10%)
Load current	>2.2mA(OFF),<1.1mA(ON)
Hysteresis	<15%(Sr)
Repeatability	<2.0%(Sr)
Power-on delay	≤10ms
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

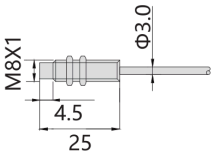
LED indicator	None
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	①: Stainless steel ②: Stainless steel ③: Brass, nickel-plated ④: Brass, nickel-plated
Sensing face material	①: POM ②: POM ③: PBT ④: PBT
Connection	①: 2m PVC Cable, 2*0.25mm² ②: 2m PVC Cable, 2*0.25mm² ③: 2m PVC Cable, 2*0.5mm² ④: 2m PVC Cable, 2*0.5mm²
Accessories	None

DIMENSIONAL DRAWINGS

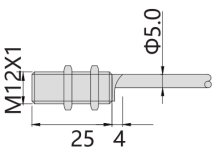
M8X25 Cable ①



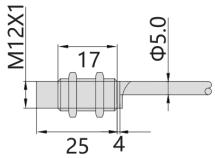
M8X25 Cable ②



M12X25 Cable ③



M12X25 Cable ④

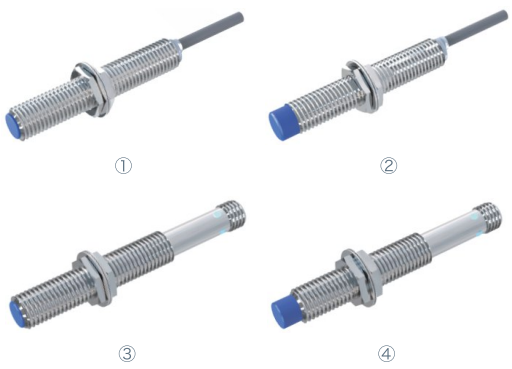


All dimensions in mm.

M8 Cylindrical Inductive Proximity Sensor

BIAS-M08-V2F1.5-V2N2.5-PC2-S83 series · Operating Voltage: 18...30VDC · Switching Freq.: 100Hz

IP67
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **18...30VDC**	SWITCHING FREQ. **100Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M8*1mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Multiple analog output modes
- Good linearity

MODEL CODES

Output Type	①	②	③	④
Analog voltage 0...10 V	**BIAS-M08-V2F1.5-PC2** SKU 10103123	**BIAS-M08-V2N2.5-PC2** SKU 10103242	**BIAS-M08-V2F1.5-S83** SKU 10103125	**BIAS-M08-V2N2.5-S83** SKU 10103244

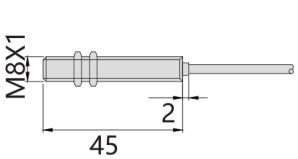
TECHNICAL DATA

Exterior structure	M8*1mm
Sensing distance	①: 0.1...1.5mm(Flush) ②: 0.1...2.5mm(Non-Flush) ③: 0.1...1.5mm(Flush) ④: 0.1...2.5mm(Non-Flush)
Operating voltage	18...30VDC
Switching frequency	100Hz
Output	0...20mA; <400Ω/0...10VDC; >2000Ω
No-load current	<35mA
Hysteresis	<10%(Sr)
Repeatability	<2%(Sr)
Linear accuracy	<5%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

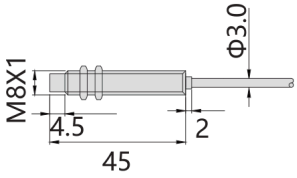
LED indicator	None
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	POM
Connection	①: 2m PVC Cable, 3*0.18mm² ②: 2m PVC Cable, 3*0.18mm² ③: M8 Connector ④: M8 Connector
Accessories	①: None ②: None ③: M8 3 pin cable with connector ④: M8 3 pin cable with connector

DIMENSIONAL DRAWINGS

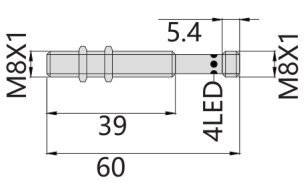
M8X45 Cable ①



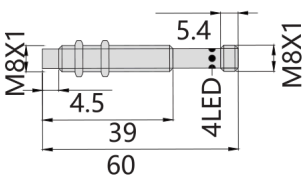
M8X45 Cable ②



M8X60 Connector ③



M8X60 Connector ④



All dimensions in mm.

M8 Cylindrical Inductive Proximity Sensor

BIDS-M08-F2.0-F3.0-PC2-R-T series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 2000Hz / 1000Hz

IP67
Ingress Protection



①② ③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **2000Hz / 1000Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M8*1mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Flush mounting
- High response frequency
- Super short size optional

MODEL CODES

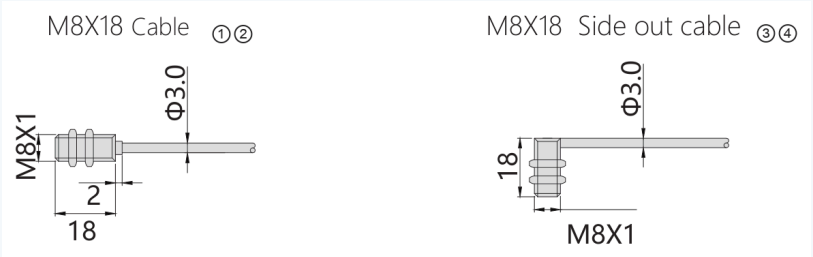
Output Type	①	②	③	④
NPN N.O	BIDS-M08-N11F2.0-PC2-R SKU 10103134	BIDS-M08-N11F3.0-PC2-R SKU 10103253	BIDS-M08-N11F2.0-PC2-T SKU 10103138	BIDS-M08-N11F3.0-PC2-T SKU 10103257
NPN N.C	BIDS-M08-N21F2.0-PC2-R SKU 10103135	BIDS-M08-N21F3.0-PC2-R SKU 10103254	BIDS-M08-N21F2.0-PC2-T SKU 10103139	BIDS-M08-N21F3.0-PC2-T SKU 10103258
PNP N.O	BIDS-M08-P11F2.0-PC2-R SKU 10103136	BIDS-M08-P11F3.0-PC2-R SKU 10103255	BIDS-M08-P11F2.0-PC2-T SKU 10103140	BIDS-M08-P11F3.0-PC2-T SKU 10103259
PNP N.C	BIDS-M08-P21F2.0-PC2-R SKU 10103137	BIDS-M08-P21F3.0-PC2-R SKU 10103256	BIDS-M08-P21F2.0-PC2-T SKU 10103141	BIDS-M08-P21F3.0-PC2-T SKU 10103260

TECHNICAL DATA

Exterior structure	M8*1mm
Sensing distance	①: 2mm(Flush) ②: 3mm(Quasi-Flush) ③: 2mm(Flush) ④: 3mm(Quasi-Flush)
Switching frequency	①: 2000Hz ②: 1000Hz ③: 2000Hz ④: 1000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	100mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)

Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Stainless steel
Sensing face material	POM
Connection	2m PVC Cable, 3*0.18mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

M8 Cylindrical Inductive Proximity Sensor

BIDS-M08-F2.0-F3.0-PC2-S series · Operating Voltage: 10...30VDC(±10%) · Ambient Temp.: -25...70°C

IP67
Ingress Protection



①②



③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	AMBIENT TEMP. **-25...70°C**
HOUSING **M8*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Flush mounting
- High response frequency
- Multiple connection options available

MODEL CODES

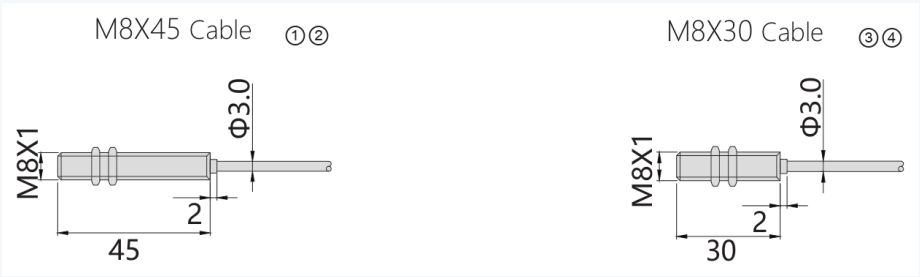
Output Type	①	②	③	④
NPN N.O	BIDS-M08-N11F2.0-PC2 SKU 10103126	BIDS-M08-N11F3.0-PC2 SKU 10103245	BIDS-M08-N11F2.0-PC2-S SKU 10103130	BIDS-M08-N11F3.0-PC2-S SKU 10103249
NPN N.C	BIDS-M08-N21F2.0-PC2 SKU 10103127	BIDS-M08-N21F3.0-PC2 SKU 10103246	BIDS-M08-N21F2.0-PC2-S SKU 10103131	BIDS-M08-N21F3.0-PC2-S SKU 10103250
PNP N.O	BIDS-M08-P11F2.0-PC2 SKU 10103128	BIDS-M08-P11F3.0-PC2 SKU 10103247	BIDS-M08-P11F2.0-PC2-S SKU 10103132	BIDS-M08-P11F3.0-PC2-S SKU 10103251
PNP N.C	BIDS-M08-P21F2.0-PC2 SKU 10103129	BIDS-M08-P21F3.0-PC2 SKU 10103248	BIDS-M08-P21F2.0-PC2-S SKU 10103133	BIDS-M08-P21F3.0-PC2-S SKU 10103252

TECHNICAL DATA

Exterior structure	M8*1mm
Sensing distance	①: 2mm(Flush) ②: 3mm(Quasi-Flush) ③: 2mm(Flush) ④: 3mm(Quasi-Flush)
Switching frequency	①: 3000Hz ②: 1000Hz ③: 2000Hz ④: 1000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	100mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)

Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Stainless steel
Sensing face material	POM
Connection	2m PVC Cable, 3*0.18mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

M8 Cylindrical Inductive Proximity Sensor

BIDS-M08-F2.0-F3.0-S124-S series · Operating Voltage: 10...30VDC(±10%) · Ambient Temp.: -25...70°C

IP67
Ingress Protection



①②



③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	AMBIENT TEMP. **-25...70°C**
HOUSING **M8*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Flush mounting
- High response frequency
- Multiple connection options available

MODEL CODES

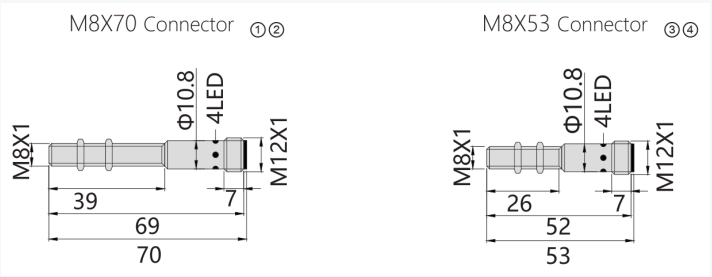
Output Type	①	②	③	④
NPN N.O	BIDS-M08-N11F2.0-S124 SKU 10103154	BIDS-M08-N11F3.0-S124 SKU 10103273	BIDS-M08-N11F2.0-S124-S SKU 10103158	BIDS-M08-N11F3.0-S124-S SKU 10103277
NPN N.C	BIDS-M08-N21F2.0-S124 SKU 10103155	BIDS-M08-N21F3.0-S124 SKU 10103274	BIDS-M08-N21F2.0-S124-S SKU 10103159	BIDS-M08-N21F3.0-S124-S SKU 10103278
PNP N.O	BIDS-M08-P11F2.0-S124 SKU 10103156	BIDS-M08-P11F3.0-S124 SKU 10103275	BIDS-M08-P11F2.0-S124-S SKU 10103160	BIDS-M08-P11F3.0-S124-S SKU 10103279
PNP N.C	BIDS-M08-P21F2.0-S124 SKU 10103157	BIDS-M08-P21F3.0-S124 SKU 10103276	BIDS-M08-P21F2.0-S124-S SKU 10103161	BIDS-M08-P21F3.0-S124-S SKU 10103280

TECHNICAL DATA

Exterior structure	M8*1mm
Sensing distance	①: 2mm(Flush) ②: 3mm(Quasi-Flush) ③: 2mm(Flush) ④: 3mm(Quasi-Flush)
Switching frequency	①: 3000Hz ②: 1000Hz ③: 2000Hz ④: 1000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	100mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)

Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	POM
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

M8 Cylindrical Inductive Proximity Sensor

BIDS-M08-F2.0-F3.0-S83-S-R series · Operating Voltage: 10...30VDC(±10%) · Ambient Temp.: -25...70°C

IP67
Ingress Protection



①②



③④



⑤⑥

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	AMBIENT TEMP. **-25...70°C**
HOUSING **M8*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Flush mounting
- High response frequency
- Multiple connection options available

MODEL CODES

Output Type	①	②	③	④	⑤	⑥
NPN N.O	BIDS-M08-N11F2.0-S83 SKU 10103142	BIDS-M08-N11F3.0-S83 SKU 10103261	BIDS-M08-N11F2.0-S83-S SKU 10103146	BIDS-M08-N11F3.0-S83-S SKU 10103265	BIDS-M08-N11F2.0-S83-R SKU 10103150	BIDS-M08-N11F3.0-S83-R SKU 10103269
NPN N.C	BIDS-M08-N21F2.0-S83 SKU 10103143	BIDS-M08-N21F3.0-S83 SKU 10103262	BIDS-M08-N21F2.0-S83-S SKU 10103147	BIDS-M08-N21F3.0-S83-S SKU 10103266	BIDS-M08-N21F2.0-S83-R SKU 10103151	BIDS-M08-N21F3.0-S83-R SKU 10103270
PNP N.O	BIDS-M08-P11F2.0-S83 SKU 10103144	BIDS-M08-P11F3.0-S83 SKU 10103263	BIDS-M08-P11F2.0-S83-S SKU 10103148	BIDS-M08-P11F3.0-S83-S SKU 10103267	BIDS-M08-P11F2.0-S83-R SKU 10103152	BIDS-M08-P11F3.0-S83-R SKU 10103271
PNP N.C	BIDS-M08-P21F2.0-S83 SKU 10103145	BIDS-M08-P21F3.0-S83 SKU 10103264	BIDS-M08-P21F2.0-S83-S SKU 10103149	BIDS-M08-P21F3.0-S83-S SKU 10103268	BIDS-M08-P21F2.0-S83-R SKU 10103153	BIDS-M08-P21F3.0-S83-R SKU 10103272

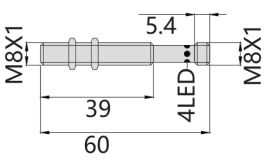
TECHNICAL DATA

Exterior structure	M8*1mm
Sensing distance	①: 2mm(Flush) ②: 3mm(Quasi-Flush) ③: 2mm(Flush) ④: 3mm(Quasi-Flush) ⑤: 2mm(Flush) ⑥: 3mm(Quasi-Flush)
Switching frequency	①: 3000Hz ②: 1000Hz ③: 2000Hz ④: 1000Hz ⑤: 2000Hz ⑥: 1000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	100mA
Leakage current	≤0.01mA

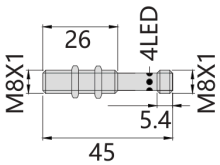
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Stainless steel
Sensing face material	POM
Connection	M8 Connector
Accessories	M8 3 pin cable with connector

DIMENSIONAL DRAWINGS

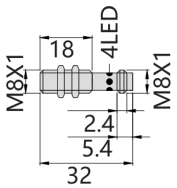
M8X60 Connector ①②



M8X45 Connector ③④



M8X32 Connector ⑤⑥

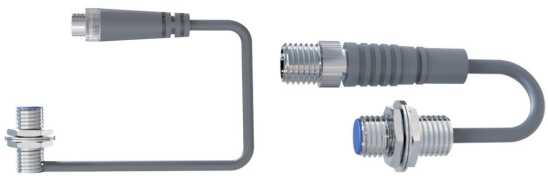


All dimensions in mm.

M8 Cylindrical Inductive Proximity Sensor

BIDS-M08-F2.0-F3.0-Z83-T-R series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 2000Hz / 1000H

IP67
Ingress Protection



①② ③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **2000Hz / 1000H**
AMBIENT TEMP. **-25...70°C**	HOUSING **M8*1mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Flush mounting
- High response frequency
- Super short size optional

MODEL CODES

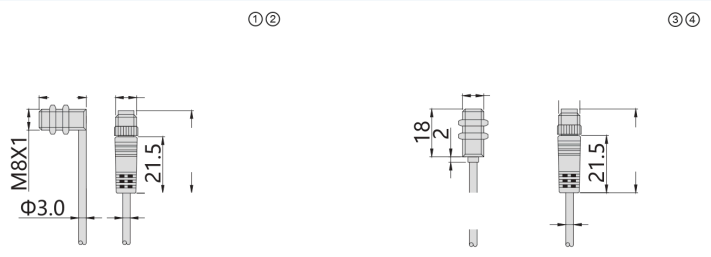
Output Type	①	②	③	④
NPN N.O	BIDS-M08-N11F2.0-Z83-T SKU 10103162	BIDS-M08-N11F3.0-Z83-T SKU 10103281	BIDS-M08-N11F2.0-Z83-R SKU 10103166	BIDS-M08-N11F3.0-Z83-R SKU 10103285
NPN N.C	BIDS-M08-N21F2.0-Z83-T SKU 10103163	BIDS-M08-N21F3.0-Z83-T SKU 10103282	BIDS-M08-N21F2.0-Z83-R SKU 10103167	BIDS-M08-N21F3.0-Z83-R SKU 10103286
PNP N.O	BIDS-M08-P11F2.0-Z83-T SKU 10103164	BIDS-M08-P11F3.0-Z83-T SKU 10103283	BIDS-M08-P11F2.0-Z83-R SKU 10103168	BIDS-M08-P11F3.0-Z83-R SKU 10103287
PNP N.C	BIDS-M08-P21F2.0-Z83-T SKU 10103165	BIDS-M08-P21F3.0-Z83-T SKU 10103284	BIDS-M08-P21F2.0-Z83-R SKU 10103169	BIDS-M08-P21F3.0-Z83-R SKU 10103288

TECHNICAL DATA

Exterior structure	M8*1mm
Sensing distance	①: 2mm(Flush) ②: 3mm(Quasi-Flush) ③: 2mm(Flush) ④: 3mm(Quasi-Flush)
Switching frequency	①: 2000Hz ②: 1000H ③: 2000Hz ④: 1000H
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	100mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)

Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Stainless steel
Sensing face material	POM
Connection	M8, 0.3m Cable with connector
Accessories	M8 3 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

M8 Cylindrical Inductive Proximity Sensor

BIDS-M08-N4.0-N6.0-PC2-S series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 1000Hz / 500Hz

IP67
Ingress Protection



①②



③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **1000Hz / 500Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M8*1mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Non-flush mounting
- Middle and long distance detection
- Multiple connection options available

MODEL CODES

Output Type	①	②	③	④
NPN N.O	BIDS-M08-N11N4.0-PC2 SKU 10103329	BIDS-M08-N11N6.0-PC2 SKU 10103359	BIDS-M08-N11N4.0-PC2-S SKU 10103333	BIDS-M08-N11N6.0-PC2-S SKU 10103363
NPN N.C	BIDS-M08-N21N4.0-PC2 SKU 10103330	BIDS-M08-N21N6.0-PC2 SKU 10103360	BIDS-M08-N21N4.0-PC2-S SKU 10103334	BIDS-M08-N21N6.0-PC2-S SKU 10103364
PNP N.O	BIDS-M08-P11N4.0-PC2 SKU 10103331	BIDS-M08-P11N6.0-PC2 SKU 10103361	BIDS-M08-P11N4.0-PC2-S SKU 10103335	BIDS-M08-P11N6.0-PC2-S SKU 10103365
PNP N.C	BIDS-M08-P21N4.0-PC2 SKU 10103332	BIDS-M08-P21N6.0-PC2 SKU 10103362	BIDS-M08-P21N4.0-PC2-S SKU 10103336	BIDS-M08-P21N6.0-PC2-S SKU 10103366

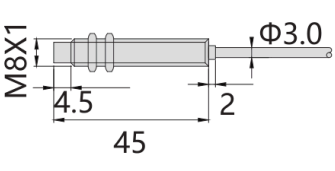
TECHNICAL DATA

Exterior structure	M8*1mm
Sensing distance	①: 4mm(Non-Flush) ②: 6mm(Non-Flush) ③: 4mm(Non-Flush) ④: 6mm(Non-Flush)
Switching frequency	①: 1000Hz ②: 500Hz ③: 1000Hz ④: 500Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	100mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)

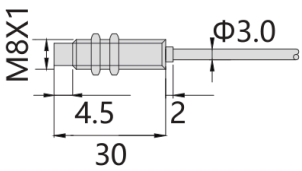
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Stainless steel
Sensing face material	POM
Connection	2m PVC Cable, 3*0.18mm²
Accessories	None

DIMENSIONAL DRAWINGS

M8X45 Cable ①②



M8X30 Cable ③④



All dimensions in mm.

M8 Cylindrical Inductive Proximity Sensor

BIDS-M08-N4.0-N6.0-S124-S series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 1000Hz / 500Hz

IP67
Ingress Protection



①②



③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **1000Hz / 500Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M8*1mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Non-flush mounting
- Middle and long distance detection
- Multiple connection options available

MODEL CODES

Output Type	①	②	③	④
NPN N.O	**BIDS-M08-N11N4.0-S124** SKU 10103345	**BIDS-M08-N11N6.0-S124** SKU 10103375	**BIDS-M08-N11N4.0-S124-S** SKU 10103349	**BIDS-M08-N11N6.0-S124-S** SKU 10103379
NPN N.C	**BIDS-M08-N21N4.0-S124** SKU 10103346	**BIDS-M08-N21N6.0-S124** SKU 10103376	**BIDS-M08-N21N4.0-S124-S** SKU 10103350	**BIDS-M08-N21N6.0-S124-S** SKU 10103380
PNP N.O	**BIDS-M08-P11N4.0-S124** SKU 10103347	**BIDS-M08-P11N6.0-S124** SKU 10103377	**BIDS-M08-P11N4.0-S124-S** SKU 10103351	**BIDS-M08-P11N6.0-S124-S** SKU 10103381
PNP N.C	**BIDS-M08-P21N4.0-S124** SKU 10103348	**BIDS-M08-P21N6.0-S124** SKU 10103378	**BIDS-M08-P21N4.0-S124-S** SKU 10103352	**BIDS-M08-P21N6.0-S124-S** SKU 10103382

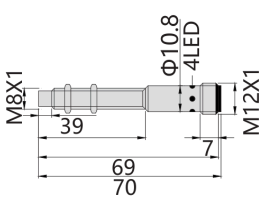
TECHNICAL DATA

Exterior structure	M8*1mm
Sensing distance	①: 4mm(Non-Flush) ②: 6mm(Non-Flush) ③: 4mm(Non-Flush) ④: 6mm(Non-Flush)
Switching frequency	①: 1000Hz ②: 500Hz ③: 1000Hz ④: 500Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	100mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)

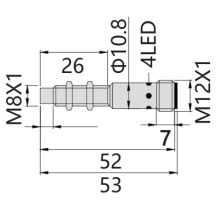
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	POM
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

M8X70 Connector ①②



M8X53 Connector ③④



All dimensions in mm.

M8 Cylindrical Inductive Proximity Sensor

BIDS-M08-N4.0-N6.0-S83-S series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 1000Hz / 500Hz

IP67
Ingress Protection



①②



③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **1000Hz / 500Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M8*1mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Non-flush mounting
- Middle and long distance detection
- Multiple connection options available

MODEL CODES

Output Type	①	②	③	④
NPN N.O	**BIDS-M08-N11N4.0-S83** SKU 10103337	**BIDS-M08-N11N6.0-S83** SKU 10103367	**BIDS-M08-N11N4.0-S83-S** SKU 10103341	**BIDS-M08-N11N6.0-S83-S** SKU 10103371
NPN N.C	**BIDS-M08-N21N4.0-S83** SKU 10103338	**BIDS-M08-N21N6.0-S83** SKU 10103368	**BIDS-M08-N21N4.0-S83-S** SKU 10103342	**BIDS-M08-N21N6.0-S83-S** SKU 10103372
PNP N.O	**BIDS-M08-P11N4.0-S83** SKU 10103339	**BIDS-M08-P11N6.0-S83** SKU 10103369	**BIDS-M08-P11N4.0-S83-S** SKU 10103343	**BIDS-M08-P11N6.0-S83-S** SKU 10103373
PNP N.C	**BIDS-M08-P21N4.0-S83** SKU 10103340	**BIDS-M08-P21N6.0-S83** SKU 10103370	**BIDS-M08-P21N4.0-S83-S** SKU 10103344	**BIDS-M08-P21N6.0-S83-S** SKU 10103374

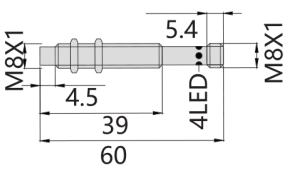
TECHNICAL DATA

Exterior structure	M8*1mm
Sensing distance	①: 4mm(Non-Flush) ②: 6mm(Non-Flush) ③: 4mm(Non-Flush) ④: 6mm(Non-Flush)
Switching frequency	①: 1000Hz ②: 500Hz ③: 1000Hz ④: 500Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	100mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)

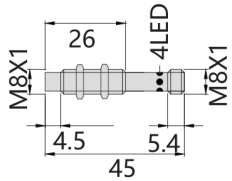
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Stainless steel
Sensing face material	POM
Connection	M8 Connector
Accessories	M8 3 pin cable with connector

DIMENSIONAL DRAWINGS

M8X60 Connector ①②



M8X45 Connector ③④



All dimensions in mm.

M8 Cylindrical Inductive Proximity Sensor

BIDM-M08-F2.0-PC2-S series · Sensing Distance: 2mm(Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



① ②

KEY SPECIFICATIONS

SENSING DISTANCE **2mm(Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **100Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **M8*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- High protection level
- Collision proof
- Corrosion resistance

MODEL CODES

Output Type	①	②
NPN N.O	**BIDM-M08-N11F2.0-PC2** SKU 10103171	**BIDM-M08-N11F2.0-PC2-S** SKU 10103175
NPN N.C	**BIDM-M08-N21F2.0-PC2** SKU 10103172	**BIDM-M08-N21F2.0-PC2-S** SKU 10103176
PNP N.O	**BIDM-M08-P11F2.0-PC2** SKU 10103173	**BIDM-M08-P11F2.0-PC2-S** SKU 10103177
PNP N.C	**BIDM-M08-P21F2.0-PC2** SKU 10103174	**BIDM-M08-P21F2.0-PC2-S** SKU 10103178

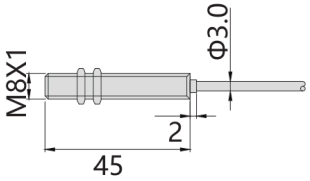
TECHNICAL DATA

Exterior structure	M8*1mm
Sensing distance	2mm(Flush)
Switching frequency	100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	100mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

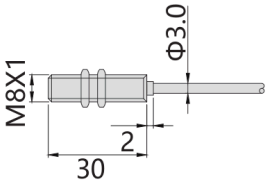
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Stainless steel
Sensing face material	Stainless steel
Connection	2m PVC Cable, 3*0.18mm²
Accessories	None

DIMENSIONAL DRAWINGS

M8X45 Cable ①



M8X30 Cable ②



All dimensions in mm.

M8 Cylindrical Inductive Proximity Sensor

BIDM-M08-F2.0-S83-S-S124 series · Sensing Distance: 2mm(Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **2mm(Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **100Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **M8*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- High protection level
- Collision proof
- Corrosion resistance

MODEL CODES

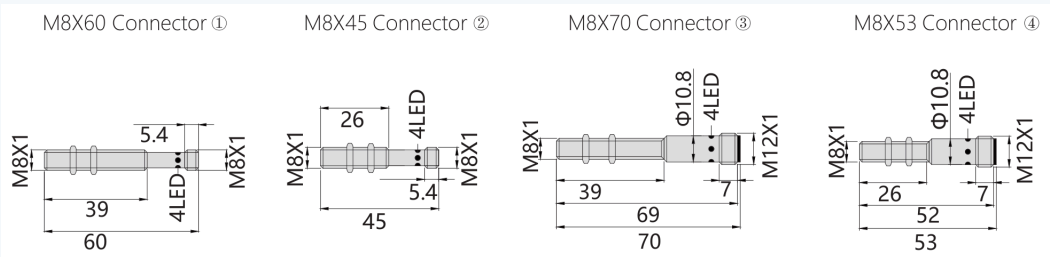
Output Type	①	②	③	④
NPN N.O	**BIDM-M08-N11F2.0-S83** SKU 10103179	**BIDM-M08-N11F2.0-S83-S** SKU 10103183	**BIDM-M08-N11F2.0-S124** SKU 10103187	**BIDM-M08-N11F2.0-S124-S** SKU 10103191
NPN N.C	**BIDM-M08-N21F2.0-S83** SKU 10103180	**BIDM-M08-N21F2.0-S83-S** SKU 10103184	**BIDM-M08-N21F2.0-S124** SKU 10103188	**BIDM-M08-N21F2.0-S124-S** SKU 10103192
PNP N.O	**BIDM-M08-P11F2.0-S83** SKU 10103181	**BIDM-M08-P11F2.0-S83-S** SKU 10103185	**BIDM-M08-P11F2.0-S124** SKU 10103189	**BIDM-M08-P11F2.0-S124-S** SKU 10103193
PNP N.C	**BIDM-M08-P21F2.0-S83** SKU 10103182	**BIDM-M08-P21F2.0-S83-S** SKU 10103186	**BIDM-M08-P21F2.0-S124** SKU 10103190	**BIDM-M08-P21F2.0-S124-S** SKU 10103194

TECHNICAL DATA

Exterior structure	M8*1mm
Sensing distance	2mm(Flush)
Switching frequency	100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	100mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C

Ingress protection	IP67
Housing material	Stainless steel
Sensing face material	Stainless steel
Connection	①: M8 Connector ②: M8 Connector ③: M12 Connector ④: M12 Connector
Accessories	①: M8 3 pin cable with connector ②: M8 3 pin cable with connector ③: M12 4 pin cable with connector ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

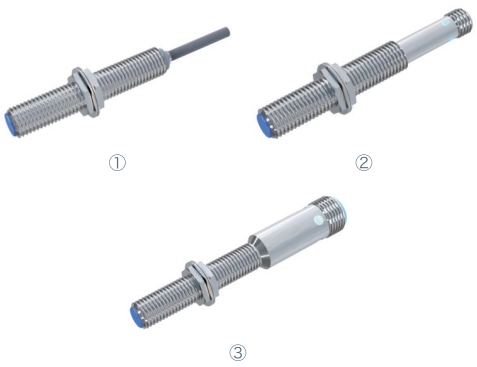


All dimensions in mm.

M8 Cylindrical Inductive Proximity Sensor

BIDS-M08-F2.0-PC2-S83-S124 series · Sensing Distance: 2mm(Flush) · Operating Voltage: 10...60VDC(±10%)

IP67
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **2mm(Flush)**	OPERATING VOLTAGE **10...60VDC(±10%)**
SWITCHING FREQ. **1000Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **M8*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Flush mounting
- Mid-range detection
- Multiple connection options available

MODEL CODES

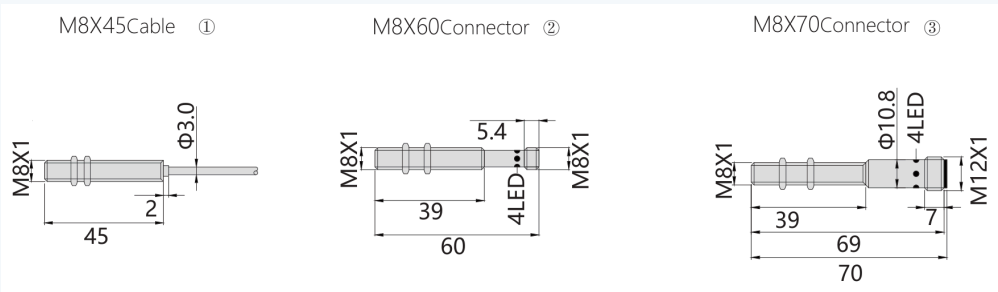
Output Type	①	②	③
N.O	**BIDS-M08-D13F2.0-PC2** SKU 10103235	**BIDS-M08-D13F2.0-S83** SKU 10103237	**BIDS-M08-D13F2.0-S124** SKU 10103239
N.C	**BIDS-M08-D23F2.0-PC2** SKU 10103236	**BIDS-M08-D23F2.0-S83** SKU 10103238	**BIDS-M08-D23F2.0-S124** SKU 10103240

TECHNICAL DATA

Exterior structure	M8*1mm
Sensing distance	2mm(Flush)
Switching frequency	1000Hz
Operating voltage	10...60VDC(±10%)
Voltage drop	≤4.5V
Load current	100mA
Residual signal	≤0.5mA
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)

Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	①: Stainless steel ②: Stainless steel ③: Brass, nickel-plated
Sensing face material	POM
Connection	①: 2m PVC Cable, 2*0.25mm² ②: M8 Connector ③: M12 Connector
Accessories	①: None ②: M8 3 pin cable with connector ③: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

M8 Cylindrical Inductive Proximity Sensor

BIDT-M08-F2.0-S83-S-S124 series · Sensing Distance: 2mm(Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **2mm(Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **3000Hz / 2000Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **M8*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Teflon-coated housing
- Proof to strong magnetic interference
- High resistance to interference and welding slags splashing

MODEL CODES

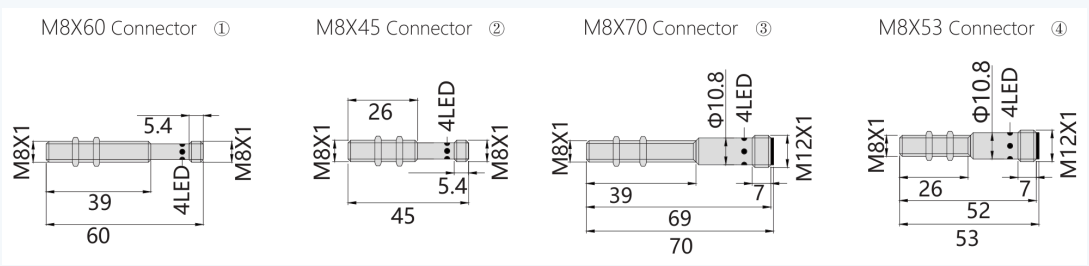
Output Type	①	②	③	④
NPN N.O	BIDT-M08-N11F2.0-S83 SKU 10103195	BIDT-M08-N11F2.0-S83-S SKU 10103199	BIDT-M08-N11F2.0-S124 SKU 10103203	BIDT-M08-N11F2.0-S124-S SKU 10103207
NPN N.C	BIDT-M08-N21F2.0-S83 SKU 10103196	BIDT-M08-N21F2.0-S83-S SKU 10103200	BIDT-M08-N21F2.0-S124 SKU 10103204	BIDT-M08-N21F2.0-S124-S SKU 10103208
PNP N.O	BIDT-M08-P11F2.0-S83 SKU 10103197	BIDT-M08-P11F2.0-S83-S SKU 10103201	BIDT-M08-P11F2.0-S124 SKU 10103205	BIDT-M08-P11F2.0-S124-S SKU 10103209
PNP N.C	BIDT-M08-P21F2.0-S83 SKU 10103198	BIDT-M08-P21F2.0-S83-S SKU 10103202	BIDT-M08-P21F2.0-S124 SKU 10103206	BIDT-M08-P21F2.0-S124-S SKU 10103210

TECHNICAL DATA

Exterior structure	M8*1mm
Sensing distance	2mm(Flush)
Switching frequency	①: 3000Hz ②: 2000Hz ③: 3000Hz ④: 2000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	100mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)

Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, Teflon-plated
Sensing face material	PTFE
Connection	①: M8 Connector ②: M8 Connector ③: M12 Connector ④: M12 Connector
Accessories	①: M8 3 pin cable with connector ②: M8 3 pin cable with connector ③: M12 4 pin cable with connector ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

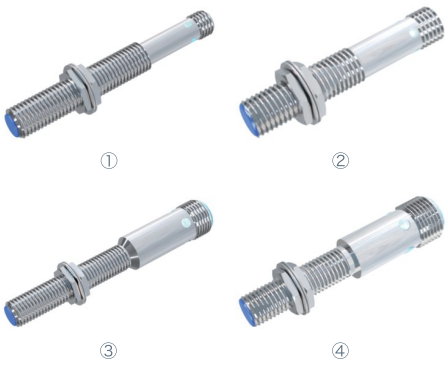


All dimensions in mm.

M8 Cylindrical Inductive Proximity Sensor

BIDW-M08-F2.0-S83-S-S124 series · Sensing Distance: 2mm(Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **2mm(Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **3000Hz / 2000Hz**	AMBIENT TEMP. **-40...85°C**
HOUSING **M8*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Low temperature resistance
- Suitable for cold storage, extremely cold environment
- Temperature-40°C...85°C

MODEL CODES

Output Type	①	②	③	④
NPN N.O	BIDW-M08-N11F2.0-S83 SKU 10103219	BIDW-M08-N11F2.0-S83-S SKU 10103223	BIDW-M08-N11F2.0-S124 SKU 10103227	BIDW-M08-N11F2.0-S124-S SKU 10103231
NPN N.C	BIDW-M08-N21F2.0-S83 SKU 10103220	BIDW-M08-N21F2.0-S83-S SKU 10103224	BIDW-M08-N21F2.0-S124 SKU 10103228	BIDW-M08-N21F2.0-S124-S SKU 10103232
PNP N.O	BIDW-M08-P11F2.0-S83 SKU 10103221	BIDW-M08-P11F2.0-S83-S SKU 10103225	BIDW-M08-P11F2.0-S124 SKU 10103229	BIDW-M08-P11F2.0-S124-S SKU 10103233
PNP N.C	BIDW-M08-P21F2.0-S83 SKU 10103222	BIDW-M08-P21F2.0-S83-S SKU 10103226	BIDW-M08-P21F2.0-S124 SKU 10103230	BIDW-M08-P21F2.0-S124-S SKU 10103234

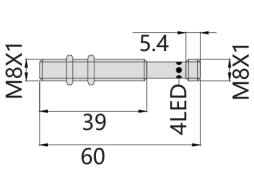
TECHNICAL DATA

Exterior structure	M8*1mm
Sensing distance	2mm(Flush)
Switching frequency	①: 3000Hz ②: 2000Hz ③: 3000Hz ④: 2000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	100mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-40...85°C

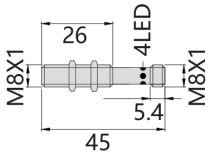
Ingress protection	IP67
Housing material	①: Stainless steel ②: Stainless steel ③: Brass, nickel-plated ④: Brass, nickel-plated
Sensing face material	POM
Connection	①: M8 Connector ②: M8 Connector ③: M12 Connector ④: M12 Connector
Accessories	①: M8 3 pin cable with connector ②: M8 3 pin cable with connector ③: M12 4 pin cable with connector ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

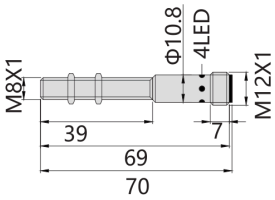
M8X60 Connector ①



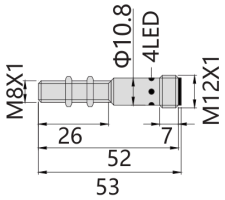
M8X45 Connector ②



M8X70 Connector ③



M8X53 Connector ④



All dimensions in mm.

M8 Cylindrical Inductive Proximity Sensor

BIDW-M08-F2.0-UC2-S series · Sensing Distance: 2mm(Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



① ②

KEY SPECIFICATIONS

SENSING DISTANCE **2mm(Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **3000Hz / 2000Hz**	AMBIENT TEMP. **-40...85°C**
HOUSING **M8*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Low temperature resistance
- Suitable for cold storage, extremely cold environment
- Temperature-40°C...85°C

MODEL CODES

Output Type	3000Hz ①	2000Hz ②
NPN N.O	**BIDW-M08-N11F2.0-UC2** SKU 10103211	**BIDW-M08-N11F2.0-UC2-S** SKU 10103215
NPN N.C	**BIDW-M08-N21F2.0-UC2** SKU 10103212	**BIDW-M08-N21F2.0-UC2-S** SKU 10103216
PNP N.O	**BIDW-M08-P11F2.0-UC2** SKU 10103213	**BIDW-M08-P11F2.0-UC2-S** SKU 10103217
PNP N.C	**BIDW-M08-P21F2.0-UC2** SKU 10103214	**BIDW-M08-P21F2.0-UC2-S** SKU 10103218

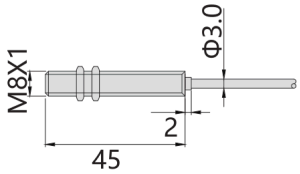
TECHNICAL DATA

Exterior structure	M8*1mm
Sensing distance	2mm(Flush)
Switching frequency	3000Hz 2000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	100mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)

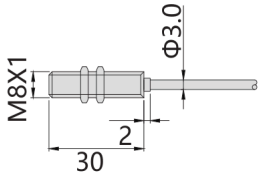
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-40...85°C
Ingress protection	IP67
Housing material	Stainless steel
Sensing face material	POM
Connection	2m PUR Cable, 3*0.18mm²
Accessories	None

DIMENSIONAL DRAWINGS

M8X45 Cable ①



M8X30 Cable ②

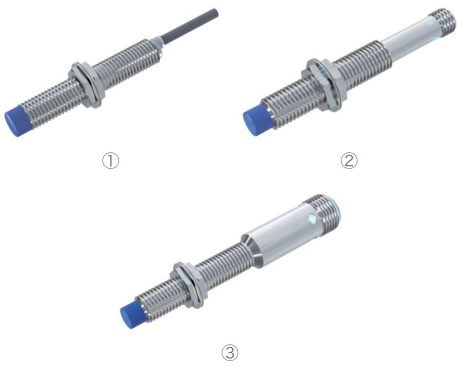


All dimensions in mm.

M8 Cylindrical Inductive Proximity Sensor

BIDS-M08-N4.0-PC2-S83-S124 series · Sensing Distance: 4mm(Non-Flush) · Operating Voltage: 10...60VDC(±10%)

IP67
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **4mm(Non-Flush)**	OPERATING VOLTAGE **10...60VDC(±10%)**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **M8*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Non-flush mounting
- Mid-range detection
- Multiple connection options available

MODEL CODES

Output Type	①	②	③
N.O	**BIDS-M08-D13N4.0-PC2** SKU 10103353	**BIDS-M08-D13N4.0-S83** SKU 10103355	**BIDS-M08-D13N4.0-S124** SKU 10103357
N.C	**BIDS-M08-D23N4.0-PC2** SKU 10103354	**BIDS-M08-D23N4.0-S83** SKU 10103356	**BIDS-M08-D23N4.0-S124** SKU 10103358

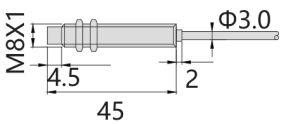
TECHNICAL DATA

Exterior structure	M8*1mm
Sensing distance	4mm(Non-Flush)
Switching frequency	500Hz
Operating voltage	10...60VDC(±10%)
Voltage drop	≤4.5V
Load current	100mA
Residual signal	≤0.5mA
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)

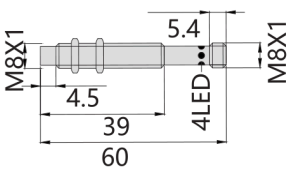
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	①: Stainless steel ②: Stainless steel ③: Brass, nickel-plated
Sensing face material	POM
Connection	①: 2m PVC Cable, 2*0.25mm² ②: M8 Connector ③: M12 Connector
Accessories	①: None ②: M8 3 pin cable with connector ③: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

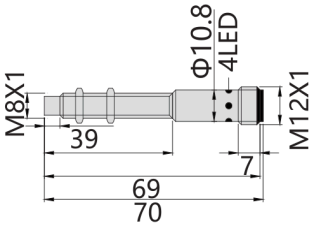
M8X45 Cable ①



M8X60 Connector ②



M8X70 Connector ③



All dimensions in mm.

M8 Cylindrical Inductive Proximity Sensor

BIDT-M08-N4.0-S83-S-S124 series · Sensing Distance: 4mm(Non-Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **4mm(Non-Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **1000Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **M8*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Teflon-coated housing
- Proof to strong magnetic interference
- High resistance to interference and welding slags splashing

MODEL CODES

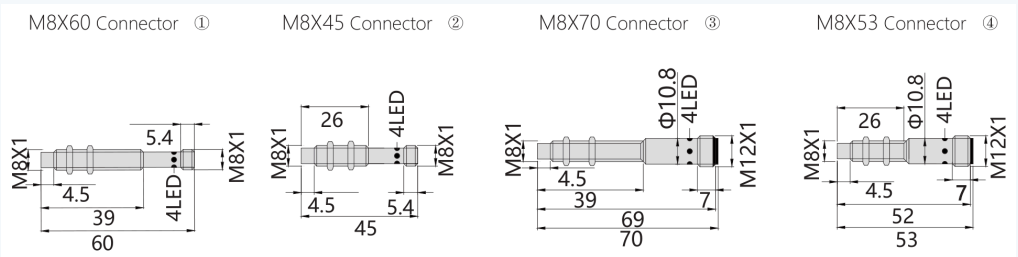
Output Type	①	②	③	④
NPN N.O	**BIDT-M08-N11N4.0-S83** SKU 10103313	**BIDT-M08-N11N4.0-S83-S** SKU 10103317	**BIDT-M08-N11N4.0-S124** SKU 10103321	**BIDT-M08-N11N4.0-S124-S** SKU 10103325
NPN N.C	**BIDT-M08-N21N4.0-S83** SKU 10103314	**BIDT-M08-N21N4.0-S83-S** SKU 10103318	**BIDT-M08-N21N4.0-S124** SKU 10103322	**BIDT-M08-N21N4.0-S124-S** SKU 10103326
PNP N.O	**BIDT-M08-P11N4.0-S83** SKU 10103315	**BIDT-M08-P11N4.0-S83-S** SKU 10103319	**BIDT-M08-P11N4.0-S124** SKU 10103323	**BIDT-M08-P11N4.0-S124-S** SKU 10103327
PNP N.C	**BIDT-M08-P21N4.0-S83** SKU 10103316	**BIDT-M08-P21N4.0-S83-S** SKU 10103320	**BIDT-M08-P21N4.0-S124** SKU 10103324	**BIDT-M08-P21N4.0-S124-S** SKU 10103328

TECHNICAL DATA

Exterior structure	M8*1mm
Sensing distance	4mm(Non-Flush)
Switching frequency	1000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	100mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)

Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, Teflon-plated
Sensing face material	PTFE
Connection	①: M8 Connector ②: M8 Connector ③: M12 Connector ④: M12 Connector
Accessories	①: M8 3 pin cable with connector ②: M8 3 pin cable with connector ③: M12 4 pin cable with connector ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

M8 Cylindrical Inductive Proximity Sensor

BIDW-M08-N4.0-S124-S series · Sensing Distance: 4mm(Non-Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



①



②

KEY SPECIFICATIONS

SENSING DISTANCE **4mm(Non-Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **1000Hz**	AMBIENT TEMP. **-40...85°C**
HOUSING **M8*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Low temperature resistance
- Suitable for cold storage, extremely cold environment
- Temperature-40°C...85°C

MODEL CODES

Output Type	①	②
NPN N.O	**BIDW-M08-N11N4.0-S124** SKU 10103305	**BIDW-M08-N11N4.0-S124-S** SKU 10103309
NPN N.C	**BIDW-M08-N21N4.0-S124** SKU 10103306	**BIDW-M08-N21N4.0-S124-S** SKU 10103310
PNP N.O	**BIDW-M08-P11N4.0-S124** SKU 10103307	**BIDW-M08-P11N4.0-S124-S** SKU 10103311
PNP N.C	**BIDW-M08-P21N4.0-S124** SKU 10103308	**BIDW-M08-P21N4.0-S124-S** SKU 10103312

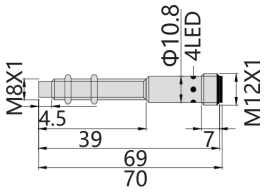
TECHNICAL DATA

Exterior structure	M8*1mm
Sensing distance	4mm(Non-Flush)
Switching frequency	1000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	100mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)

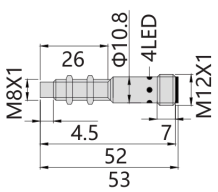
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-40...85°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	POM
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

M8X70 Connector ①



M8X53 Connector ②



All dimensions in mm.

M8 Cylindrical Inductive Proximity Sensor

BIDW-M08-N4.0-UC2-S-S83 series · Sensing Distance: 4mm(Non-Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **4mm(Non-Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **1000Hz**	AMBIENT TEMP. **-40...85°C**
HOUSING **M8*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Low temperature resistance
- Suitable for cold storage, extremely cold environment
- Temperature-40°C...85°C

MODEL CODES

Output Type	①	②	③	④
NPN N.O	**BIDW-M08-N11N4.0-UC2** SKU 10103289	**BIDW-M08-N11N4.0-UC2-S** SKU 10103293	**BIDW-M08-N11N4.0-S83** SKU 10103297	**BIDW-M08-N11N4.0-S83-S** SKU 10103301
NPN N.C	**BIDW-M08-N21N4.0-UC2** SKU 10103290	**BIDW-M08-N21N4.0-UC2-S** SKU 10103294	**BIDW-M08-N21N4.0-S83** SKU 10103298	**BIDW-M08-N21N4.0-S83-S** SKU 10103302
PNP N.O	**BIDW-M08-P11N4.0-UC2** SKU 10103291	**BIDW-M08-P11N4.0-UC2-S** SKU 10103295	**BIDW-M08-P11N4.0-S83** SKU 10103299	**BIDW-M08-P11N4.0-S83-S** SKU 10103303
PNP N.C	**BIDW-M08-P21N4.0-UC2** SKU 10103292	**BIDW-M08-P21N4.0-UC2-S** SKU 10103296	**BIDW-M08-P21N4.0-S83** SKU 10103300	**BIDW-M08-P21N4.0-S83-S** SKU 10103304

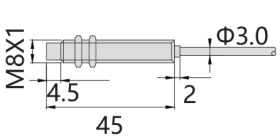
TECHNICAL DATA

Exterior structure	M8*1mm
Sensing distance	4mm(Non-Flush)
Switching frequency	1000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	100mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)

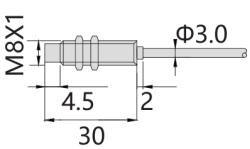
Ambient temperature	-40...85°C
Ingress protection	IP67
Housing material	Stainless steel
Sensing face material	POM
Connection	①: 2m PUR Cable, 3*0.18mm² ②: 2m PUR Cable, 3*0.18mm² ③: M8 Connector ④: M8 Connector
Accessories	①: None ②: None ③: M8 3 pin cable with connector ④: M8 3 pin cable with connector

DIMENSIONAL DRAWINGS

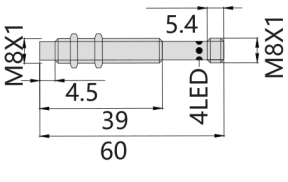
M8X45 Cable ①



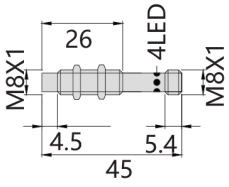
M8X30 Cable ②



M8X60 Connector ③



M8X45 Connector ④



All dimensions in mm.

M12 / M18 / M30 Cylindrical Inductive Proximity Sensor — Factor 1

BIDF-M12-F10-F4.0-F8.0-S124-F series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 2000Hz / 750Hz

IP67
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **2000Hz / 750Hz**
AMBIENT TEMP. **-25...70°C**	INGRESS PROTECTION **IP67**

FEATURES

- Factor 1: equal sensing distance on all metals
- Teflon-coated housing
- Detection of copper, iron, aluminum
- Application in the automotive industry

MODEL CODES

Output Type	①	②	③
NPN N.O	**BIDF-M12-N11F4.0-S124-F** SKU 10103487	**BIDF-M18-N11F8.0-S124-F** SKU 10103784	**BIDF-M30-N11F10-S124-F** SKU 10104070
NPN N.C	**BIDF-M12-N21F4.0-S124-F** SKU 10103488	**BIDF-M18-N21F8.0-S124-F** SKU 10103785	**BIDF-M30-N21F10-S124-F** SKU 10104071
PNP N.O	**BIDF-M12-P11F4.0-S124-F** SKU 10103489	**BIDF-M18-P11F8.0-S124-F** SKU 10103786	**BIDF-M30-P11F10-S124-F** SKU 10104072
PNP N.C	**BIDF-M12-P21F4.0-S124-F** SKU 10103490	**BIDF-M18-P21F8.0-S124-F** SKU 10103787	**BIDF-M30-P21F10-S124-F** SKU 10104073

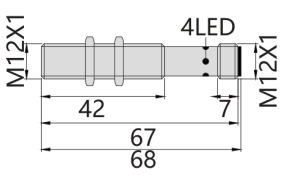
TECHNICAL DATA

Exterior structure	①: M12*1mm ②: M18*1mm ③: M30*1.5mm
Sensing distance	①: 4mm(Flush) ②: 8mm(Flush) ③: 10mm(Flush)
Switching frequency	①: 2000Hz ②: 2000Hz ③: 750Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)

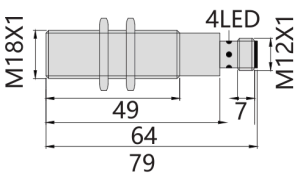
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, Teflon-plated
Sensing face material	PPS
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

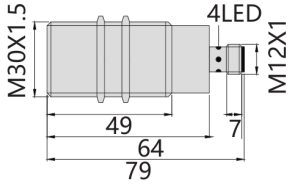
M12X68 Connector ①



M18X79 Connector ②



M30X79 Connector ③

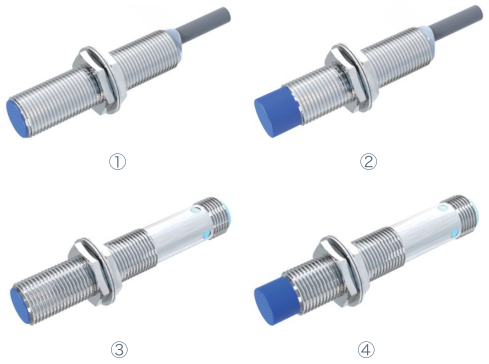


All dimensions in mm.

M12 Cylindrical Inductive Proximity Sensor

BIAS-M12-I2F3.0-I2N4.0-V2F3.0-V2N4.0-PC2-S124 series · Operating Voltage: 18...30VDC · Switching Freq.: 100Hz

IP67
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **18...30VDC**	SWITCHING FREQ. **100Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M12*1mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Multiple analog output modes
- Good linearity

MODEL CODES

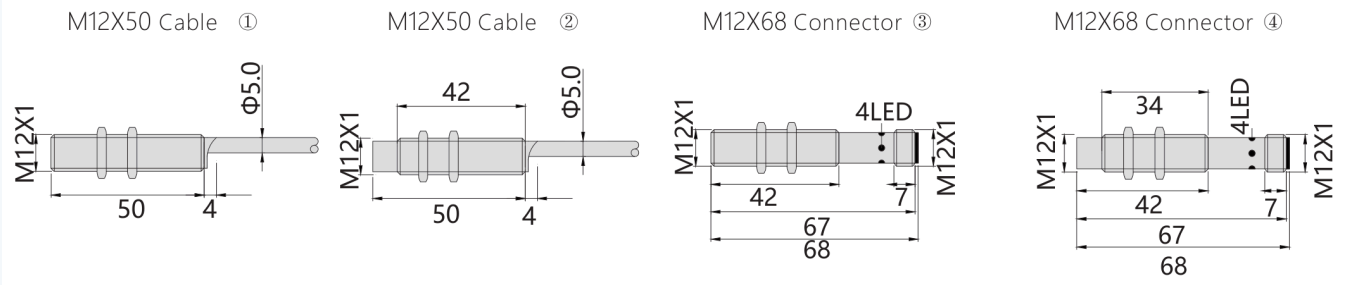
Output Type	①	②	③	④
Analog current 0...20 mA	**BIAS-M12-I2F3.0-PC2** SKU 10103412	**BIAS-M12-I2N4.0-PC2** SKU 10103434	**BIAS-M12-I2F3.0-S124** SKU 10103414	**BIAS-M12-I2N4.0-S124** SKU 10103436
Analog voltage 0...10 V	**BIAS-M12-V2F3.0-PC2** SKU 10103413	**BIAS-M12-V2N4.0-PC2** SKU 10103435	**BIAS-M12-V2F3.0-S124** SKU 10103415	**BIAS-M12-V2N4.0-S124** SKU 10103437

TECHNICAL DATA

Exterior structure	M12*1mm
Sensing distance	①: 0.1...3.0mm(Flush) ②: 0.1...4.0mm(Non-Flush) ③: 0.1...3.0mm(Flush) ④: 0.1...4.0mm(Non-Flush)
Operating voltage	18...30VDC
Switching frequency	100Hz
Output	0...20mA; <400Ω/0...10VDC; >2000Ω
No-load current	<35mA
Hysteresis	<10%(Sr)
Repeatability	<2%(Sr)
Linear accuracy	<5%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	None
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	①: 2m PVC Cable, 3*0.35mm² ②: 2m PVC Cable, 3*0.35mm² ③: M12 Connector ④: M12 Connector
Accessories	①: None ②: None ③: M12 4 pin cable with connector ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

M12 Cylindrical Inductive Proximity Sensor

BIDH-M12-F2.0-F4.0-G2-120 series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 500Hz / 150Hz

IP66
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **500Hz / 150Hz**
HOUSING **M12*1mm**	INGRESS PROTECTION **IP66**

FEATURES

- High-precision stand-alone operation
- Built-in non-adjustable high precision amplifier
- Ambient temperature -25 ° C ~ 230 ° C

MODEL CODES

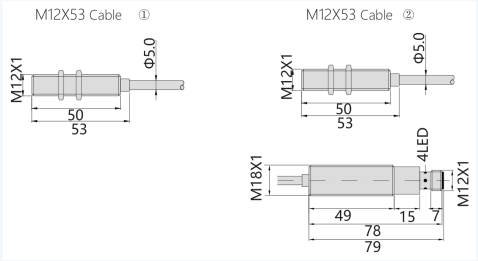
Output Type		
NPN N.O	**BIDH-M12-N11F2.0-G2-120** SKU 10103400	**BIDH-M12-N11F4.0-G2-120** SKU 10103507
NPN N.C	**BIDH-M12-N21F2.0-G2-120** SKU 10103401	**BIDH-M12-N21F4.0-G2-120** SKU 10103508
PNP N.O	**BIDH-M12-P11F2.0-G2-120** SKU 10103402	**BIDH-M12-P11F4.0-G2-120** SKU 10103509
PNP N.C	**BIDH-M12-P21F2.0-G2-120** SKU 10103403	**BIDH-M12-P21F4.0-G2-120** SKU 10103510

TECHNICAL DATA

Ambient temperature	①: -25...120°C ②: -25...150°C/180°C/230°C
Exterior structure	M12*1mm
Sensing distance	①: 2mm(Flush) ②: 4mm(Flush)
Switching frequency	①: 500Hz ②: 150Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Amplifier	①: None ②: External
Load current	①: 200mA/24V DC ②: 200mA
No-load current	①: ≤10mA(24V) ②: ≤25mA(24V)
Hysteresis	<3...15%(Sr)
Repeatability	①: <1.0%(Sr) ②: <3.0%(Sr)

Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	①: None ②: With (Action: LED Indicator Lights Up)
Ingress protection	IP66
Housing material	Stainless steel
Sensing face material	①: PTFE ②: PEEK
Connection	①: 2m Silicone cable, 3*0.35mm² ②: 3m KFF46PH cable/M12 Connector
Accessories	①: None ②: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

M12 Cylindrical Inductive Proximity Sensor

BIDM-M12-F2.0-F4.0-PC2-S series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 100Hz

IP67
Ingress Protection



①②



③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **100Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M12*1mm**
INGRESS PROTECTION **IP67**	

FEATURES

- High protection level
- Collision proof
- Corrosion resistance

MODEL CODES

Output Type	①	②	③	④
NPN N.O	BIDM-M12-N11F2.0-PC2 SKU 10103383	BIDM-M12-N11F4.0-PC2 SKU 10103439	BIDM-M12-N11F2.0-PC2-S SKU 10103387	BIDM-M12-N11F4.0-PC2-S SKU 10103443
NPN N.C	BIDM-M12-N21F2.0-PC2 SKU 10103384	BIDM-M12-N21F4.0-PC2 SKU 10103440	BIDM-M12-N21F2.0-PC2-S SKU 10103388	BIDM-M12-N21F4.0-PC2-S SKU 10103444
PNP N.O	BIDM-M12-P11F2.0-PC2 SKU 10103385	BIDM-M12-P11F4.0-PC2 SKU 10103441	BIDM-M12-P11F2.0-PC2-S SKU 10103389	BIDM-M12-P11F4.0-PC2-S SKU 10103445
PNP N.C	BIDM-M12-P21F2.0-PC2 SKU 10103386	BIDM-M12-P21F4.0-PC2 SKU 10103442	BIDM-M12-P21F2.0-PC2-S SKU 10103390	BIDM-M12-P21F4.0-PC2-S SKU 10103446

TECHNICAL DATA

Exterior structure	M12*1mm
Sensing distance	①: 2mm(Flush) ②: 4mm(Flush) ③: 2mm(Flush) ④: 4mm(Flush)
Switching frequency	100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)

Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Stainless steel
Sensing face material	Stainless steel
Connection	2m PVC Cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

M12 Cylindrical Inductive Proximity Sensor

BIDM-M12-F2.0-F4.0-S124-S series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 100Hz

IP67
Ingress Protection



①②



③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **100Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M12*1mm**
INGRESS PROTECTION **IP67**	

FEATURES

- High protection level
- Collision proof
- Corrosion resistance

MODEL CODES

Output Type	①	②	③	④
NPN N.O	BIDM-M12-N11F2.0-S124 SKU 10103391	BIDM-M12-N11F4.0-S124 SKU 10103447	BIDM-M12-N11F2.0-S124-S SKU 10103395	BIDM-M12-N11F4.0-S124-S SKU 10103451
NPN N.C	BIDM-M12-N21F2.0-S124 SKU 10103392	BIDM-M12-N21F4.0-S124 SKU 10103448	BIDM-M12-N21F2.0-S124-S SKU 10103396	BIDM-M12-N21F4.0-S124-S SKU 10103452
PNP N.O	BIDM-M12-P11F2.0-S124 SKU 10103393	BIDM-M12-P11F4.0-S124 SKU 10103449	BIDM-M12-P11F2.0-S124-S SKU 10103397	BIDM-M12-P11F4.0-S124-S SKU 10103453
PNP N.C	BIDM-M12-P21F2.0-S124 SKU 10103394	BIDM-M12-P21F4.0-S124 SKU 10103450	BIDM-M12-P21F2.0-S124-S SKU 10103398	BIDM-M12-P21F4.0-S124-S SKU 10103454

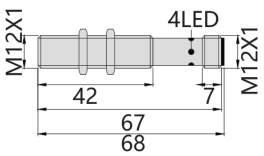
TECHNICAL DATA

Exterior structure	M12*1mm
Sensing distance	①: 2mm(Flush) ②: 4mm(Flush) ③: 2mm(Flush) ④: 4mm(Flush)
Switching frequency	100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)

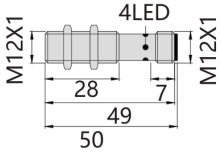
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Stainless steel
Sensing face material	Stainless steel
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

M12X68 Connector ①②



M12X50 Connector ③④



All dimensions in mm.

M12 Cylindrical Inductive Proximity Sensor

BIDS-M12-A14F2.0-A14F4.0-A24F2.0-A24F4.0-A14N4.0-A24N4.0-U15F2.0-U15F4.0-U25F2.0-U25F4.0-U15N4.0-U25N4.0-PC2 series · Switching Freq.: 25Hz/25Hz AC; 40Hz DC · Ambient Temp.: -25...70°C

IP67
Ingress Protection



①②



③

KEY SPECIFICATIONS

SWITCHING FREQ. **25Hz/25Hz AC; 40Hz DC**	AMBIENT TEMP. **-25...70°C**
HOUSING **M12*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Strong anti-interference ability
- Multiple connection options available

MODEL CODES

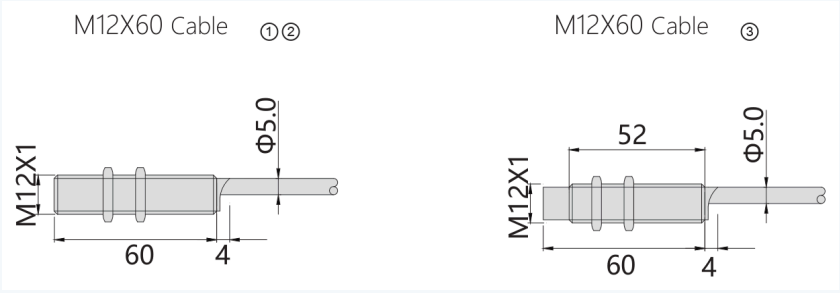
Output Type	①	②	③
AC type — 20...250V AC · 25Hz			
N.O	**BIDS-M12-A14F2.0-PC2** SKU 10103404	**BIDS-M12-A14F4.0-PC2** SKU 10103561	**BIDS-M12-A14N4.0-PC2** SKU 10103565
N.C	**BIDS-M12-A24F2.0-PC2** SKU 10103405	**BIDS-M12-A24F4.0-PC2** SKU 10103562	**BIDS-M12-A24N4.0-PC2** SKU 10103566
AC/DC type — 20...250V AC/DC · 25Hz AC; 40Hz DC			
N.O	**BIDS-M12-U15F2.0-PC2** SKU 10103406	**BIDS-M12-U15F4.0-PC2** SKU 10103563	**BIDS-M12-U15N4.0-PC2** SKU 10103567
N.C	**BIDS-M12-U25F2.0-PC2** SKU 10103407	**BIDS-M12-U25F4.0-PC2** SKU 10103564	**BIDS-M12-U25N4.0-PC2** SKU 10103568

TECHNICAL DATA

Exterior structure	M12*1mm
Sensing distance	①: 2mm(Flush) ②: 4mm(Flush) ③: 4mm(Non-Flush)
Switching frequency	AC: 25Hz · AC/DC: 25Hz AC; 40Hz DC
Operating voltage	AC: 20...250V AC · AC/DC: 20...250V AC/DC
Voltage drop	≤8V AC/≤10V AC,8V DC
Load current	Max.load: 400mA; min.Load: 5mA
Residual signal	≤1.8mA/≤2.5mA
Hysteresis	<15%(Sr)

Repeatability	<1.0%(Sr)
Switch protection	Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	2m PVC Cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

M12 Cylindrical Inductive Proximity Sensor

BIDS-M12-A14F2.0-A14F4.0-A24F2.0-A24F4.0-A14N4.0-A24N4.0-U15F2.0-U15F4.0-U25F2.0-U25F4.0-U15N4.0-U25N4.0-S124 series · Switching Freq.: 25Hz/25Hz AC; 40Hz DC · Ambient Temp.: -25...70°C

IP67
Ingress Protection



①②



③

KEY SPECIFICATIONS

SWITCHING FREQ. **25Hz/25Hz AC; 40Hz DC**	AMBIENT TEMP. **-25...70°C**
HOUSING **M12*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Strong anti-interference ability
- Multiple connection options available

MODEL CODES

Output Type	①	②	③
AC type — 20...250V AC · 25Hz			
N.O	**BIDS-M12-A14F2.0-S124** SKU 10103408	**BIDS-M12-A14F4.0-S124** SKU 10103569	**BIDS-M12-A14N4.0-S124** SKU 10103573
N.C	**BIDS-M12-A24F2.0-S124** SKU 10103409	**BIDS-M12-A24F4.0-S124** SKU 10103570	**BIDS-M12-A24N4.0-S124** SKU 10103574
AC/DC type — 20...250V AC/DC · 25Hz AC; 40Hz DC			
N.O	**BIDS-M12-U15F2.0-S124** SKU 10103410	**BIDS-M12-U15F4.0-S124** SKU 10103571	**BIDS-M12-U15N4.0-S124** SKU 10103575
N.C	**BIDS-M12-U25F2.0-S124** SKU 10103411	**BIDS-M12-U25F4.0-S124** SKU 10103572	**BIDS-M12-U25N4.0-S124** SKU 10103576

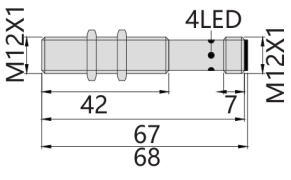
TECHNICAL DATA

Exterior structure	M12*1mm
Sensing distance	①: 2mm(Flush) ②: 4mm(Flush) ③: 4mm(Non-Flush)
Switching frequency	AC: 25Hz · AC/DC: 25Hz AC; 40Hz DC
Operating voltage	AC: 20...250V AC · AC/DC: 20...250V AC/DC
Voltage drop	≤8V AC/≤10V AC,8V DC
Load current	Max.load: 400mA; min.Load: 5mA
Residual signal	≤1.8mA/≤2.5mA
Hysteresis	<15%(Sr)

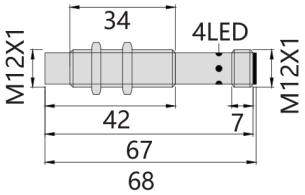
Repeatability	<1.0%(Sr)
Switch protection	Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

M12X68 Connector ①②



M12X68 Connector ③



All dimensions in mm.

M12 Cylindrical Inductive Proximity Sensor

BIDS-M12-F4.0-F6.0-PC2-S series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 3000Hz / 800Hz

IP67
Ingress Protection



①②



③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **3000Hz / 800Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M12*1mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Flush mounting
- Middle and long distance detection
- Multiple connection options available

MODEL CODES

Output Type	①	②	③	④
NPN N.O	BIDS-M12-N11F4.0-PC2 SKU 10103533	BIDS-M12-N11F6.0-PC2 SKU 10103577	BIDS-M12-N11F4.0-PC2-S SKU 10103537	BIDS-M12-N11F6.0-PC2-S SKU 10103581
NPN N.C	BIDS-M12-N21F4.0-PC2 SKU 10103534	BIDS-M12-N21F6.0-PC2 SKU 10103578	BIDS-M12-N21F4.0-PC2-S SKU 10103538	BIDS-M12-N21F6.0-PC2-S SKU 10103582
PNP N.O	BIDS-M12-P11F4.0-PC2 SKU 10103535	BIDS-M12-P11F6.0-PC2 SKU 10103579	BIDS-M12-P11F4.0-PC2-S SKU 10103539	BIDS-M12-P11F6.0-PC2-S SKU 10103583
PNP N.C	BIDS-M12-P21F4.0-PC2 SKU 10103536	BIDS-M12-P21F6.0-PC2 SKU 10103580	BIDS-M12-P21F4.0-PC2-S SKU 10103540	BIDS-M12-P21F6.0-PC2-S SKU 10103584

TECHNICAL DATA

Exterior structure	M12*1mm
Sensing distance	①: 4mm(Flush) ②: 6mm(Quasi-Flush) ③: 4mm(Flush) ④: 6mm(Quasi-Flush)
Switching frequency	①: 3000Hz ②: 800Hz ③: 3000Hz ④: 800Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)

Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	2m PVC Cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

M12 Cylindrical Inductive Proximity Sensor

BIDS-M12-F4.0-F6.0-S124-S series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 3000Hz / 800Hz

IP67
Ingress Protection



①②



③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **3000Hz / 800Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M12*1mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Flush mounting
- Middle and long distance detection
- Multiple connection options available

MODEL CODES

Output Type	①	②	③	④
NPN N.O	**BIDS-M12-N11F4.0-S124** SKU 10103541	**BIDS-M12-N11F6.0-S124** SKU 10103585	**BIDS-M12-N11F4.0-S124-S** SKU 10103545	**BIDS-M12-N11F6.0-S124-S** SKU 10103589
NPN N.C	**BIDS-M12-N21F4.0-S124** SKU 10103542	**BIDS-M12-N21F6.0-S124** SKU 10103586	**BIDS-M12-N21F4.0-S124-S** SKU 10103546	**BIDS-M12-N21F6.0-S124-S** SKU 10103590
PNP N.O	**BIDS-M12-P11F4.0-S124** SKU 10103543	**BIDS-M12-P11F6.0-S124** SKU 10103587	**BIDS-M12-P11F4.0-S124-S** SKU 10103547	**BIDS-M12-P11F6.0-S124-S** SKU 10103591
PNP N.C	**BIDS-M12-P21F4.0-S124** SKU 10103544	**BIDS-M12-P21F6.0-S124** SKU 10103588	**BIDS-M12-P21F4.0-S124-S** SKU 10103548	**BIDS-M12-P21F6.0-S124-S** SKU 10103592

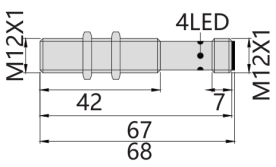
TECHNICAL DATA

Exterior structure	M12*1mm
Sensing distance	①: 4mm(Flush) ②: 6mm(Quasi-Flush) ③: 4mm(Flush) ④: 6mm(Quasi-Flush)
Switching frequency	①: 3000Hz ②: 800Hz ③: 3000Hz ④: 800Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)

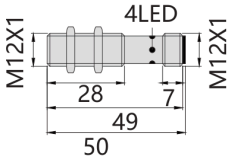
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

M12X68 Connector ①②



M12X50 Connector ③④

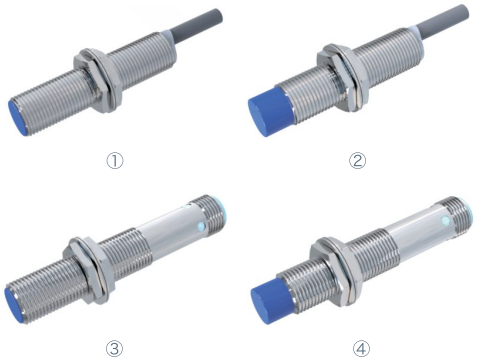


All dimensions in mm.

M12 Cylindrical Inductive Proximity Sensor

BIDS-M12-F4.0-N8.0-PC2-S124 series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 3000Hz / 500Hz

IP67
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **3000Hz / 500Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M12*1mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Mid-range detection
- Multiple connection options available

MODEL CODES

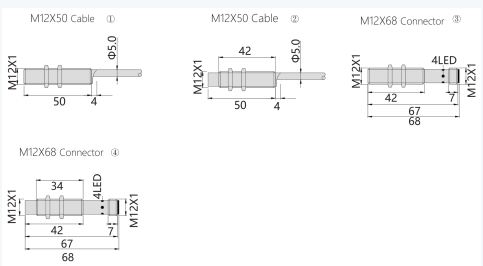
Output Type	①	②	③	④
NPN N.O+N.C	**BIDS-M12-N31F4.0-PC2** SKU 10103557	**BIDS-M12-N31N8.0-PC2** SKU 10103641	**BIDS-M12-N31F4.0-S124** SKU 10103559	**BIDS-M12-N31N8.0-S124** SKU 10103643
PNP N.O+N.C	**BIDS-M12-P31F4.0-PC2** SKU 10103558	**BIDS-M12-P31N8.0-PC2** SKU 10103642	**BIDS-M12-P31F4.0-S124** SKU 10103560	**BIDS-M12-P31N8.0-S124** SKU 10103644

TECHNICAL DATA

Exterior structure	M12*1mm
Sensing distance	①: 4mm(Flush) ②: 8mm(Non-Flush) ③: 4mm(Flush) ④: 8mm(Non-Flush)
Switching frequency	①: 3000Hz ②: 500Hz ③: 3000Hz ④: 500Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	①: 2m PVC Cable, 4*0.25mm² ②: 2m PVC Cable, 4*0.25mm² ③: M12 Connector ④: M12 Connector
Accessories	①: None ②: None ③: M12 4 pin cable with connector ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

M12 Cylindrical Inductive Proximity Sensor

BIDS-M12-N10-N8.0-PC2-S series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 500Hz / 400Hz

IP67
Ingress Protection



①②



③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **500Hz / 400Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M12*1mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Non-flush mounting
- Middle and long distance detection
- Multiple connection options available

MODEL CODES

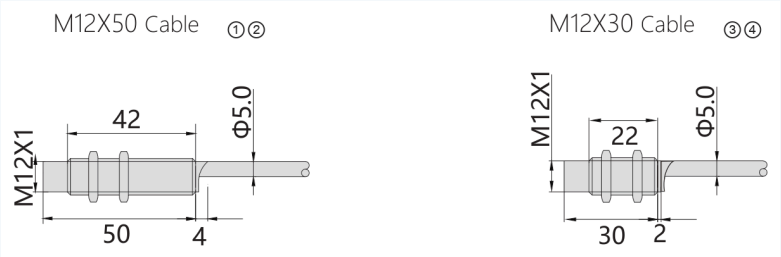
Output Type	①	②	③	④
NPN N.O	BIDS-M12-N11N8.0-PC2 SKU 10103617	BIDS-M12-N11N10-PC2 SKU 10103645	BIDS-M12-N11N8.0-PC2-S SKU 10103621	BIDS-M12-N11N10-PC2-S SKU 10103649
NPN N.C	BIDS-M12-N21N8.0-PC2 SKU 10103618	BIDS-M12-N21N10-PC2 SKU 10103646	BIDS-M12-N21N8.0-PC2-S SKU 10103622	BIDS-M12-N21N10-PC2-S SKU 10103650
PNP N.O	BIDS-M12-P11N8.0-PC2 SKU 10103619	BIDS-M12-P11N10-PC2 SKU 10103647	BIDS-M12-P11N8.0-PC2-S SKU 10103623	BIDS-M12-P11N10-PC2-S SKU 10103651
PNP N.C	BIDS-M12-P21N8.0-PC2 SKU 10103620	BIDS-M12-P21N10-PC2 SKU 10103648	BIDS-M12-P21N8.0-PC2-S SKU 10103624	BIDS-M12-P21N10-PC2-S SKU 10103652

TECHNICAL DATA

Exterior structure	M12*1mm
Sensing distance	①: 8mm(Non-Flush) ②: 10mm(Non-Flush) ③: 8mm(Non-Flush) ④: 10mm(Non-Flush)
Switching frequency	①: 500Hz ②: 400Hz ③: 500Hz ④: 400Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)

Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	2m PVC Cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

M12 Cylindrical Inductive Proximity Sensor

BIDS-M12-N10-N8.0-S124-S series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 500Hz / 400Hz

IP67
Ingress Protection



①②



③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **500Hz / 400Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M12*1mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Non-flush mounting
- Middle and long distance detection
- Multiple connection options available

MODEL CODES

Output Type	①	②	③	④
NPN N.O	**BIDS-M12-N11N8.0-S124** SKU 10103625	**BIDS-M12-N11N10-S124** SKU 10103653	**BIDS-M12-N11N8.0-S124-S** SKU 10103629	**BIDS-M12-N11N10-S124-S** SKU 10103657
NPN N.C	**BIDS-M12-N21N8.0-S124** SKU 10103626	**BIDS-M12-N21N10-S124** SKU 10103654	**BIDS-M12-N21N8.0-S124-S** SKU 10103630	**BIDS-M12-N21N10-S124-S** SKU 10103658
PNP N.O	**BIDS-M12-P11N8.0-S124** SKU 10103627	**BIDS-M12-P11N10-S124** SKU 10103655	**BIDS-M12-P11N8.0-S124-S** SKU 10103631	**BIDS-M12-P11N10-S124-S** SKU 10103659
PNP N.C	**BIDS-M12-P21N8.0-S124** SKU 10103628	**BIDS-M12-P21N10-S124** SKU 10103656	**BIDS-M12-P21N8.0-S124-S** SKU 10103632	**BIDS-M12-P21N10-S124-S** SKU 10103660

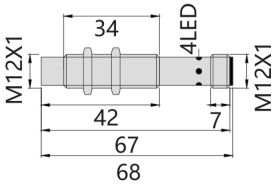
TECHNICAL DATA

Exterior structure	M12*1mm
Sensing distance	①: 8mm(Non-Flush) ②: 10mm(Non-Flush) ③: 8mm(Non-Flush) ④: 10mm(Non-Flush)
Switching frequency	①: 500Hz ②: 400Hz ③: 500Hz ④: 400Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)

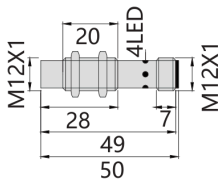
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

M12X68 Connector ①②



M12X50 Connector ③④



All dimensions in mm.

M12 Cylindrical Inductive Proximity Sensor

BIDT-M12-F4.0-N8.0-S124-S series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 3000Hz / 500Hz

IP67
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **3000Hz / 500Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M12*1mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Teflon-coated housing
- Proof to strong magnetic interference
- High resistance to interference and welding slags splashing

MODEL CODES

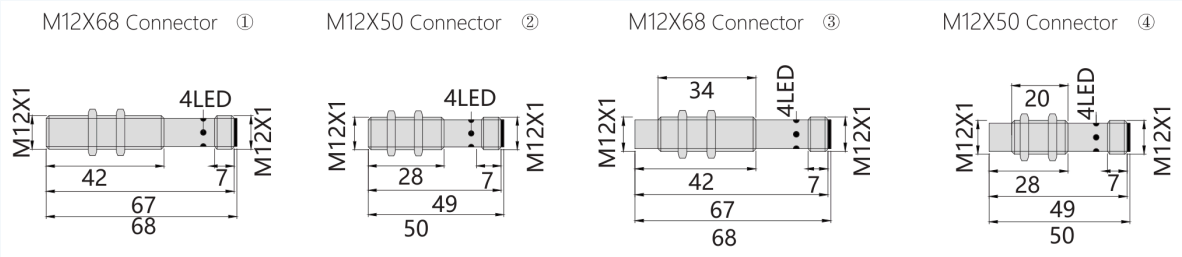
Output Type	①	②	③	④
NPN N.O	**BIDT-M12-N11F4.0-S124** SKU 10103479	**BIDT-M12-N11F4.0-S124-S** SKU 10103483	**BIDT-M12-N11N8.0-S124** SKU 10103609	**BIDT-M12-N11N8.0-S124-S** SKU 10103613
NPN N.C	**BIDT-M12-N21F4.0-S124** SKU 10103480	**BIDT-M12-N21F4.0-S124-S** SKU 10103484	**BIDT-M12-N21N8.0-S124** SKU 10103610	**BIDT-M12-N21N8.0-S124-S** SKU 10103614
PNP N.O	**BIDT-M12-P11F4.0-S124** SKU 10103481	**BIDT-M12-P11F4.0-S124-S** SKU 10103485	**BIDT-M12-P11N8.0-S124** SKU 10103611	**BIDT-M12-P11N8.0-S124-S** SKU 10103615
PNP N.C	**BIDT-M12-P21F4.0-S124** SKU 10103482	**BIDT-M12-P21F4.0-S124-S** SKU 10103486	**BIDT-M12-P21N8.0-S124** SKU 10103612	**BIDT-M12-P21N8.0-S124-S** SKU 10103616

TECHNICAL DATA

Exterior structure	M12*1mm
Sensing distance	①: 4mm(Flush) ②: 4mm(Flush) ③: 8mm(Non-Flush) ④: 8mm(Non-Flush)
Switching frequency	①: 3000Hz ②: 3000Hz ③: 500Hz ④: 500Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)

Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, Teflon-plated
Sensing face material	PTFE
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

M12 Cylindrical Inductive Proximity Sensor

BIDH-M12-N4.0-G2-120 series · Sensing Distance: 4mm(Non-Flush) · Operating Voltage: 10...30VDC(±10%)

IP66
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **4mm(Non-Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...120°C**
HOUSING **M12*1mm**	INGRESS PROTECTION **IP66**

FEATURES

- High-precision stand-alone operation
- Built-in non-adjustable high precision amplifier
- Ambient temperature -25 ° C ~ 230 ° C

MODEL CODES

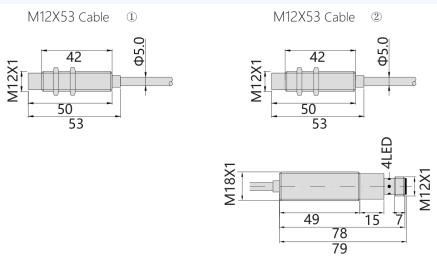
Output Type	Model Code
NPN N.O	**BIDH-M12-N11N4.0-G2-120** SKU 10103511
NPN N.C	**BIDH-M12-N21N4.0-G2-120** SKU 10103512
PNP N.O	**BIDH-M12-P11N4.0-G2-120** SKU 10103513
PNP N.C	**BIDH-M12-P21N4.0-G2-120** SKU 10103514

TECHNICAL DATA

Ambient temperature	-25...120°C
Exterior structure	M12*1mm
Sensing distance	4mm(Non-Flush)
Switching frequency	500Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Amplifier	None
Load current	200mA/24V DC
No-load current	≤10mA(24V)
Hysteresis	<3...15%(Sr)

Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	None
Ingress protection	IP66
Housing material	Stainless steel
Sensing face material	PTFE
Connection	2m Silicone cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS

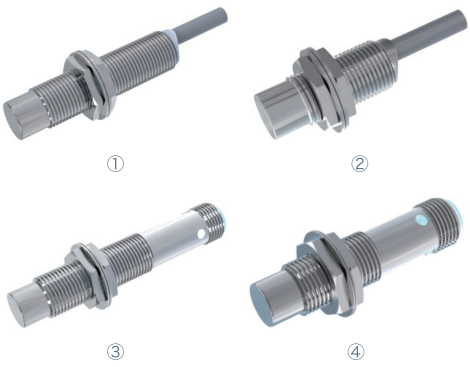


All dimensions in mm.

M12 Cylindrical Inductive Proximity Sensor

BIDM-M12-N4.0-PC2-S-S124 series · Sensing Distance: 4mm(Non-Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **4mm(Non-Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **100Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **M12*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- High protection level
- Collision proof
- Corrosion resistance

MODEL CODES

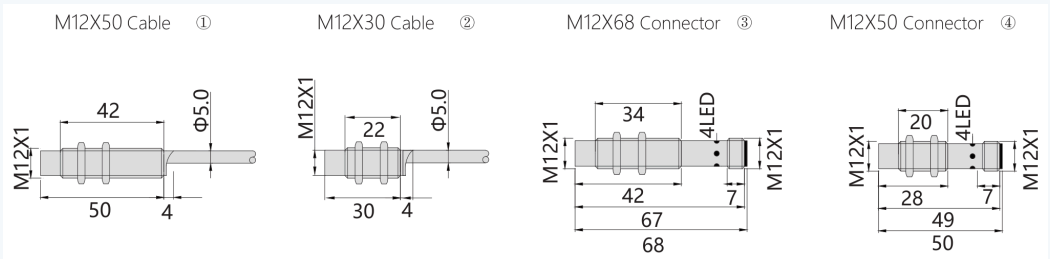
Output Type	①	②	③	④
NPN N.O	BIDM-M12-N11N4.0-PC2 SKU 10103455	BIDM-M12-N11N4.0-PC2-S SKU 10103459	BIDM-M12-N11N4.0-S124 SKU 10103463	BIDM-M12-N11N4.0-S124-S SKU 10103467
NPN N.C	BIDM-M12-N21N4.0-PC2 SKU 10103456	BIDM-M12-N21N4.0-PC2-S SKU 10103460	BIDM-M12-N21N4.0-S124 SKU 10103464	BIDM-M12-N21N4.0-S124-S SKU 10103468
PNP N.O	BIDM-M12-P11N4.0-PC2 SKU 10103457	BIDM-M12-P11N4.0-PC2-S SKU 10103461	BIDM-M12-P11N4.0-S124 SKU 10103465	BIDM-M12-P11N4.0-S124-S SKU 10103469
PNP N.C	BIDM-M12-P21N4.0-PC2 SKU 10103458	BIDM-M12-P21N4.0-PC2-S SKU 10103462	BIDM-M12-P21N4.0-S124 SKU 10103466	BIDM-M12-P21N4.0-S124-S SKU 10103470

TECHNICAL DATA

Exterior structure	M12*1mm
Sensing distance	4mm(Non-Flush)
Switching frequency	100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)

Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Stainless steel
Sensing face material	Stainless steel
Connection	①: 2m PVC Cable, 3*0.35mm² ②: 2m PVC Cable, 3*0.35mm² ③: M12 Connector ④: M12 Connector
Accessories	①: None ②: None ③: M12 4 pin cable with connector ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

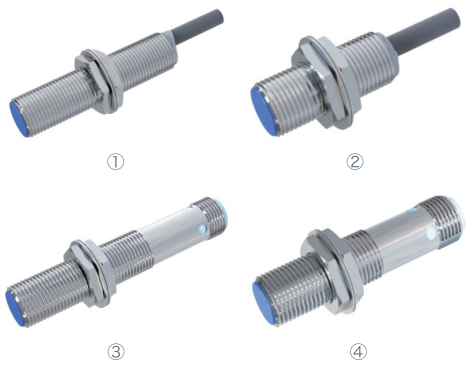


All dimensions in mm.

M12 Cylindrical Inductive Proximity Sensor

BIDS-M12-F4.0-PC2-S-S124 series · Sensing Distance: 4mm(Flush) · Operating Voltage: 10...60VDC(±10%)

IP67
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **4mm(Flush)**	OPERATING VOLTAGE **10...60VDC(±10%)**
SWITCHING FREQ. **1000Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **M12*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Flush mounting
- Mid-range detection
- Multiple connection options available

MODEL CODES

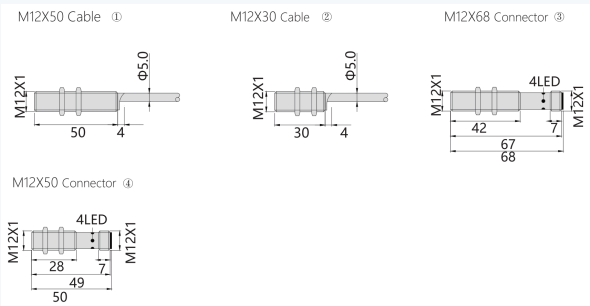
Output Type	①	②	③	④
N.O	**BIDS-M12-D13F4.0-PC2** SKU 10103549	**BIDS-M12-D13F4.0-PC2-S** SKU 10103551	**BIDS-M12-D13F4.0-S124** SKU 10103553	**BIDS-M12-D13F4.0-S124-S** SKU 10103555
N.C	**BIDS-M12-D23F4.0-PC2** SKU 10103550	**BIDS-M12-D23F4.0-PC2-S** SKU 10103552	**BIDS-M12-D23F4.0-S124** SKU 10103554	**BIDS-M12-D23F4.0-S124-S** SKU 10103556

TECHNICAL DATA

Exterior structure	M12*1mm
Sensing distance	4mm(Flush)
Switching frequency	1000Hz
Operating voltage	10...60VDC(±10%)
Voltage drop	≤4.5V
Load current	200mA
Residual signal	≤0.5mA
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)

Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	①: 2m PVC Cable, 2*0.5mm² ②: 2m PVC Cable, 2*0.5mm² ③: M12 Connector ④: M12 Connector
Accessories	①: None ②: None ③: M12 4 pin cable with connector ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

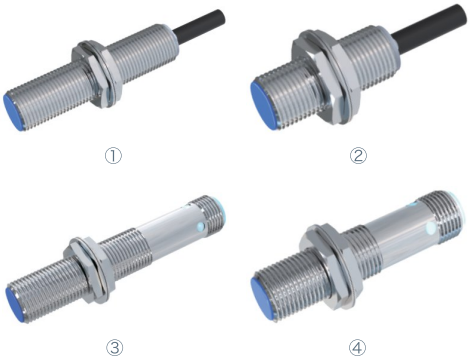


All dimensions in mm.

M12 Cylindrical Inductive Proximity Sensor

BIDW-M12-F4.0-UC2-S-S124 series · Sensing Distance: 4mm(Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **4mm(Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **3000Hz**	AMBIENT TEMP. **-40...85°C**
HOUSING **M12*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Low temperature resistance
- Suitable for cold storage, extremely cold environment
- Temperature-40°C...85°C

MODEL CODES

Output Type	①	②	③	④
NPN N.O	BIDW-M12-N11F4.0-UC2 SKU 10103491	BIDW-M12-N11F4.0-UC2-S SKU 10103495	BIDW-M12-N11F4.0-S124 SKU 10103499	BIDW-M12-N11F4.0-S124-S SKU 10103503
NPN N.C	BIDW-M12-N21F4.0-UC2 SKU 10103492	BIDW-M12-N21F4.0-UC2-S SKU 10103496	BIDW-M12-N21F4.0-S124 SKU 10103500	BIDW-M12-N21F4.0-S124-S SKU 10103504
PNP N.O	BIDW-M12-P11F4.0-UC2 SKU 10103493	BIDW-M12-P11F4.0-UC2-S SKU 10103497	BIDW-M12-P11F4.0-S124 SKU 10103501	BIDW-M12-P11F4.0-S124-S SKU 10103505
PNP N.C	BIDW-M12-P21F4.0-UC2 SKU 10103494	BIDW-M12-P21F4.0-UC2-S SKU 10103498	BIDW-M12-P21F4.0-S124 SKU 10103502	BIDW-M12-P21F4.0-S124-S SKU 10103506

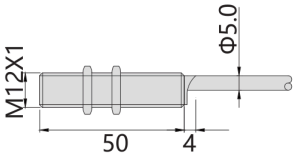
TECHNICAL DATA

Exterior structure	M12*1mm
Sensing distance	4mm(Flush)
Switching frequency	3000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)

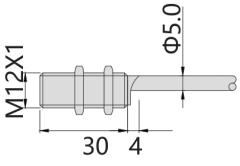
Ambient temperature	-40...85°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	①: 2m PUR Cable, 3*0.35mm² ②: 2m PUR Cable, 3*0.35mm² ③: M12 Connector ④: M12 Connector
Accessories	①: None ②: None ③: M12 4 pin cable with connector ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

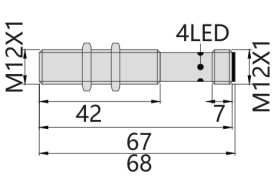
M12X50 Cable ①



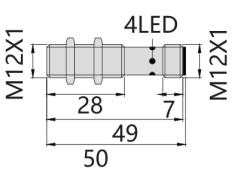
M12X30 Cable ②



M12X68 Connector ③



M12X50 Connector ④

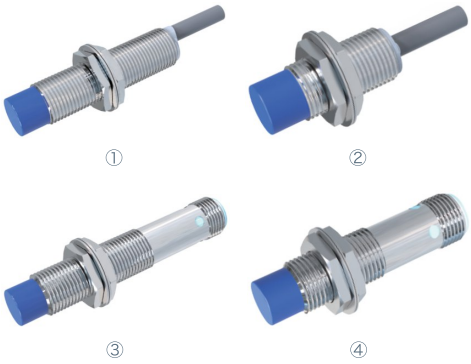


All dimensions in mm.

M12 Cylindrical Inductive Proximity Sensor

BIDS-M12-N8.0-PC2-S-S124 series · Sensing Distance: 8mm(Non-Flush) · Operating Voltage: 10...60VDC(±10%)

IP67
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **8mm(Non-Flush)**	OPERATING VOLTAGE **10...60VDC(±10%)**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **M12*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Non-flush mounting
- Mid-range detection
- Multiple connection options available

MODEL CODES

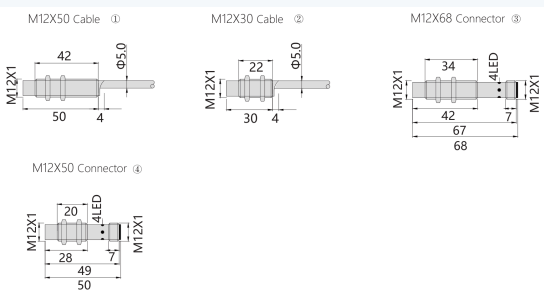
Output Type	①	②	③	④
N.O	BIDS-M12-D13N8.0-PC2 SKU 10103633	BIDS-M12-D13N8.0-PC2-S SKU 10103635	BIDS-M12-D13N8.0-S124 SKU 10103637	BIDS-M12-D13N8.0-S124-S SKU 10103639
N.C	BIDS-M12-D23N8.0-PC2 SKU 10103634	BIDS-M12-D23N8.0-PC2-S SKU 10103636	BIDS-M12-D23N8.0-S124 SKU 10103638	BIDS-M12-D23N8.0-S124-S SKU 10103640

TECHNICAL DATA

Exterior structure	M12*1mm
Sensing distance	8mm(Non-Flush)
Switching frequency	500Hz
Operating voltage	10...60VDC(±10%)
Voltage drop	≤4.5V
Load current	200mA
Residual signal	≤0.5mA
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)

Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	①: 2m PVC Cable, 2*0.5mm² ②: 2m PVC Cable, 2*0.5mm² ③: M12 Connector ④: M12 Connector
Accessories	①: None ②: None ③: M12 4 pin cable with connector ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

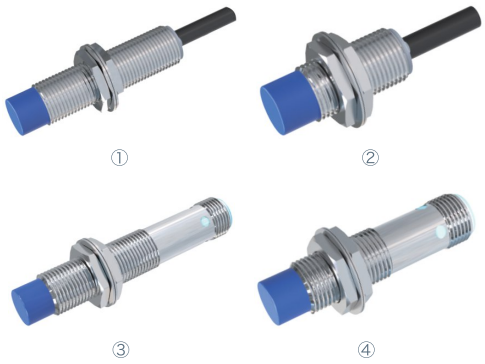


All dimensions in mm.

M12 Cylindrical Inductive Proximity Sensor

BIDW-M12-N8.0-UC2-S-S124 series · Sensing Distance: 8mm(Non-Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **8mm(Non-Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-40...85°C**
HOUSING **M12*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Low temperature resistance
- Suitable for cold storage, extremely cold environment
- Temperature-40°C...85°C

MODEL CODES

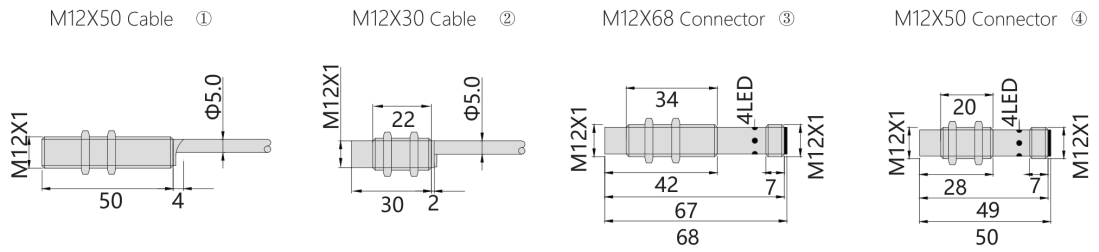
Output Type	①	②	③	④
NPN N.O	**BIDW-M12-N11N8.0-UC2** SKU 10103593	**BIDW-M12-N11N8.0-UC2-S** SKU 10103597	**BIDW-M12-N11N8.0-S124** SKU 10103601	**BIDW-M12-N11N8.0-S124-S** SKU 10103605
NPN N.C	**BIDW-M12-N21N8.0-UC2** SKU 10103594	**BIDW-M12-N21N8.0-UC2-S** SKU 10103598	**BIDW-M12-N21N8.0-S124** SKU 10103602	**BIDW-M12-N21N8.0-S124-S** SKU 10103606
PNP N.O	**BIDW-M12-P11N8.0-UC2** SKU 10103595	**BIDW-M12-P11N8.0-UC2-S** SKU 10103599	**BIDW-M12-P11N8.0-S124** SKU 10103603	**BIDW-M12-P11N8.0-S124-S** SKU 10103607
PNP N.C	**BIDW-M12-P21N8.0-UC2** SKU 10103596	**BIDW-M12-P21N8.0-UC2-S** SKU 10103600	**BIDW-M12-P21N8.0-S124** SKU 10103604	**BIDW-M12-P21N8.0-S124-S** SKU 10103608

TECHNICAL DATA

Exterior structure	M12*1mm
Sensing distance	8mm(Non-Flush)
Switching frequency	500Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)

Ambient temperature	-40...85°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	①: 2m PUR Cable, 3*0.35mm² ②: 2m PUR Cable, 3*0.35mm² ③: M12 Connector ④: M12 Connector
Accessories	①: None ②: None ③: M12 4 pin cable with connector ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

M12 Cylindrical Inductive Proximity Sensor — Factor 1

BIDF-M12-F4.0-PC2-S124 series · Sensing Distance: 4mm(Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



① ②

KEY SPECIFICATIONS

SENSING DISTANCE **4mm(Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **2000Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **M12*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Factor 1: equal sensing distance on all metals
- Detection of copper, iron, aluminum
- Application in the automotive industry

MODEL CODES

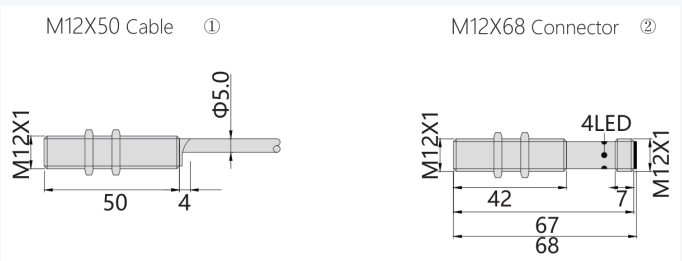
Output Type	①	②
NPN N.O	**BIDF-M12-N11F4.0-PC2** SKU 10103471	**BIDF-M12-N11F4.0-S124** SKU 10103475
NPN N.C	**BIDF-M12-N21F4.0-PC2** SKU 10103472	**BIDF-M12-N21F4.0-S124** SKU 10103476
PNP N.O	**BIDF-M12-P11F4.0-PC2** SKU 10103473	**BIDF-M12-P11F4.0-S124** SKU 10103477
PNP N.C	**BIDF-M12-P21F4.0-PC2** SKU 10103474	**BIDF-M12-P21F4.0-S124** SKU 10103478

TECHNICAL DATA

Exterior structure	M12*1mm
Sensing distance	4mm(Flush)
Switching frequency	2000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PPS
Connection	①: 2m PVC Cable, 3*0.35mm² ②: M12 Connector
Accessories	①: None ②: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

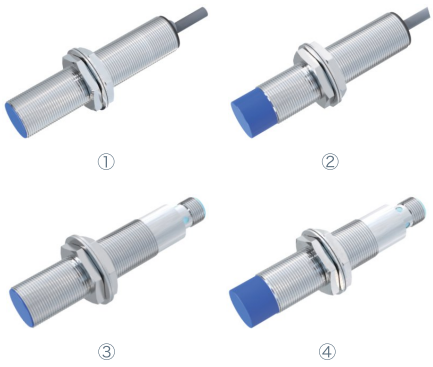


All dimensions in mm.

M18 Cylindrical Inductive Proximity Sensor

BIAS-M18-I2F4.0-I2N7.0-M2F4.0-M2N7.0-V2F4.0-V2N7.0-PC2-S124 series · Operating Voltage: 18...30VDC · Switching Freq.: 100Hz

IP67
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **18...30VDC**	SWITCHING FREQ. **100Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M18*1mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Multiple analog output modes
- Good linearity

MODEL CODES

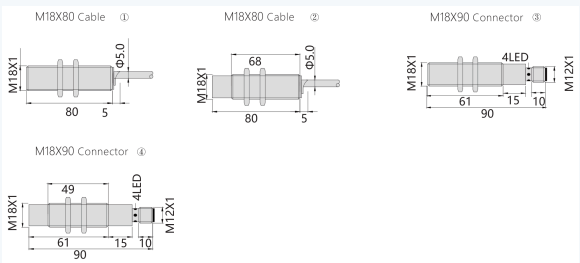
Output Type	①	②	③	④
Analog current 0...20 mA	**BIAS-M18-I2F4.0-PC2** SKU 10103661	**BIAS-M18-I2N7.0-PC2** SKU 10103726	**BIAS-M18-I2F4.0-S124** SKU 10103664	**BIAS-M18-I2N7.0-S124** SKU 10103729
Analog voltage 0...10 V	**BIAS-M18-V2F4.0-PC2** SKU 10103662	**BIAS-M18-V2N7.0-PC2** SKU 10103727	**BIAS-M18-V2F4.0-S124** SKU 10103665	**BIAS-M18-V2N7.0-S124** SKU 10103730
Analog current / voltage 0...20 mA / 0...10 V	**BIAS-M18-M2F4.0-PC2** SKU 10103663	**BIAS-M18-M2N7.0-PC2** SKU 10103728	**BIAS-M18-M2F4.0-S124** SKU 10103666	**BIAS-M18-M2N7.0-S124** SKU 10103731

TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	①: 1.0...4.0mm(Flush) ②: 1.0...7.0mm(Non-Flush) ③: 1.0...4.0mm(Flush) ④: 1.0...7.0mm(Non-Flush)
Operating voltage	18...30VDC
Switching frequency	100Hz
Output	0...20mA; <400Ω/0...10VDC; >2000Ω
No-load current	<35mA
Hysteresis	<10%(Sr)
Repeatability	<2%(Sr)
Linear accuracy	<5%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	None
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	POM
Connection	①: 2m PVC Cable, 3*0.35mm²/4*0.25mm² ②: 2m PVC Cable, 3*0.35mm²/4*0.25mm² ③: M12 Connector ④: M12 Connector
Accessories	①: None ②: None ③: M12 4 pin cable with connector ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

M18 Cylindrical Inductive Proximity Sensor

BIDM-M18-F5.0-F8.0-PC2-S series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 100Hz

IP67
Ingress Protection



①②



③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **100Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M18*1mm**
INGRESS PROTECTION **IP67**	

FEATURES

- High protection level
- Collision proof
- Corrosion resistance

MODEL CODES

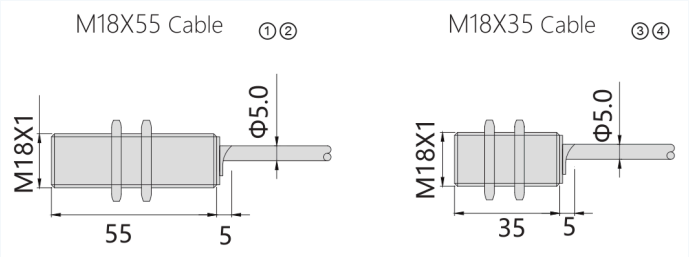
Output Type	①	②	③	④
NPN N.O	BIDM-M18-N11F5.0-PC2 SKU 10103668	BIDM-M18-N11F8.0-PC2 SKU 10103789	BIDM-M18-N11F5.0-PC2-S SKU 10103672	BIDM-M18-N11F8.0-PC2-S SKU 10103793
NPN N.C	BIDM-M18-N21F5.0-PC2 SKU 10103669	BIDM-M18-N21F8.0-PC2 SKU 10103790	BIDM-M18-N21F5.0-PC2-S SKU 10103673	BIDM-M18-N21F8.0-PC2-S SKU 10103794
PNP N.O	BIDM-M18-P11F5.0-PC2 SKU 10103670	BIDM-M18-P11F8.0-PC2 SKU 10103791	BIDM-M18-P11F5.0-PC2-S SKU 10103674	BIDM-M18-P11F8.0-PC2-S SKU 10103795
PNP N.C	BIDM-M18-P21F5.0-PC2 SKU 10103671	BIDM-M18-P21F8.0-PC2 SKU 10103792	BIDM-M18-P21F5.0-PC2-S SKU 10103675	BIDM-M18-P21F8.0-PC2-S SKU 10103796

TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	①: 5mm(Flush) ②: 8mm(Flush) ③: 5mm(Flush) ④: 8mm(Flush)
Switching frequency	100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)

Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Stainless steel
Sensing face material	Stainless steel
Connection	2m PVC Cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

M18 Cylindrical Inductive Proximity Sensor

BIDM-M18-F5.0-F8.0-S124-S series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 100Hz

IP67
Ingress Protection



①②



③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **100Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M18*1mm**
INGRESS PROTECTION **IP67**	

FEATURES

- High protection level
- Collision proofs
- Corrosion resistance

MODEL CODES

Output Type	①	②	③	④
NPN N.O	BIDM-M18-N11F5.0-S124 SKU 10103676	BIDM-M18-N11F8.0-S124 SKU 10103797	BIDM-M18-N11F5.0-S124-S SKU 10103680	BIDM-M18-N11F8.0-S124-S SKU 10103801
NPN N.C	BIDM-M18-N21F5.0-S124 SKU 10103677	BIDM-M18-N21F8.0-S124 SKU 10103798	BIDM-M18-N21F5.0-S124-S SKU 10103681	BIDM-M18-N21F8.0-S124-S SKU 10103802
PNP N.O	BIDM-M18-P11F5.0-S124 SKU 10103678	BIDM-M18-P11F8.0-S124 SKU 10103799	BIDM-M18-P11F5.0-S124-S SKU 10103682	BIDM-M18-P11F8.0-S124-S SKU 10103803
PNP N.C	BIDM-M18-P21F5.0-S124 SKU 10103679	BIDM-M18-P21F8.0-S124 SKU 10103800	BIDM-M18-P21F5.0-S124-S SKU 10103683	BIDM-M18-P21F8.0-S124-S SKU 10103804

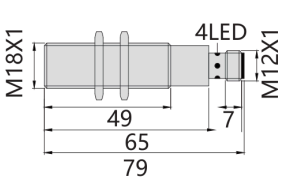
TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	①: 5mm(Flush) ②: 8mm(Flush) ③: 5mm(Flush) ④: 8mm(Flush)
Switching frequency	100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)

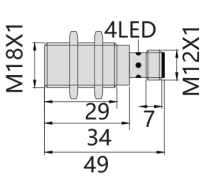
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Stainless steel
Sensing face material	Stainless steel
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

M18X79 Connector ①②



M18X48 Connector ③④



All dimensions in mm.

M18 Cylindrical Inductive Proximity Sensor

BIDS-M18-A14F5.0-A14F8.0-A24F5.0-A24F8.0-U15F5.0-U15F8.0-U25F5.0-U25F8.0-PC2-S series · Switching Freq.: 25Hz/25Hz AC; 40Hz DC · Ambient Temp.: -25...70°C

IP67
Ingress Protection



①②



③④

KEY SPECIFICATIONS

SWITCHING FREQ. **25Hz/25Hz AC; 40Hz DC**	AMBIENT TEMP. **-25...70°C**
HOUSING **M18*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Flush mounting
- Strong anti-interference ability
- Multiple connection options available

MODEL CODES

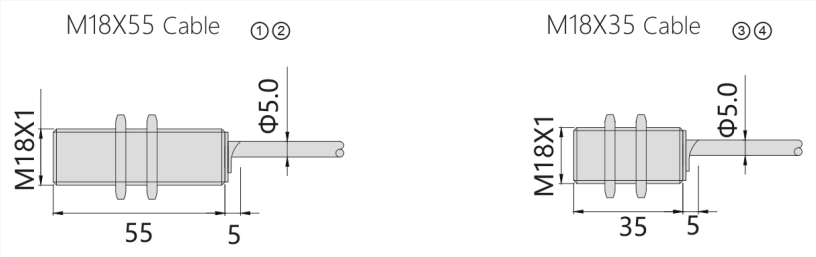
Output Type	①	②	③	④
AC type — 20...250V AC · 25Hz				
N.O	**BIDS-M18-A14F5.0-PC2** SKU 10103706	**BIDS-M18-A14F8.0-PC2** SKU 10103710	**BIDS-M18-A14F5.0-PC2-S** SKU 10103714	**BIDS-M18-A14F8.0-PC2-S** SKU 10103732
N.C	**BIDS-M18-A24F5.0-PC2** SKU 10103707	**BIDS-M18-A24F8.0-PC2** SKU 10103711	**BIDS-M18-A24F5.0-PC2-S** SKU 10103715	**BIDS-M18-A24F8.0-PC2-S** SKU 10103733
AC/DC type — 20...250V AC/DC · 25Hz AC; 40Hz DC				
N.O	**BIDS-M18-U15F5.0-PC2** SKU 10103708	**BIDS-M18-U15F8.0-PC2** SKU 10103712	**BIDS-M18-U15F5.0-PC2-S** SKU 10103716	**BIDS-M18-U15F8.0-PC2-S** SKU 10103734
N.C	**BIDS-M18-U25F5.0-PC2** SKU 10103709	**BIDS-M18-U25F8.0-PC2** SKU 10103713	**BIDS-M18-U25F5.0-PC2-S** SKU 10103717	**BIDS-M18-U25F8.0-PC2-S** SKU 10103735

TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	①: 5mm(Flush) ②: 8mm(Flush) ③: 5mm(Flush) ④: 8mm(Flush)
Switching frequency	AC: 25Hz · AC/DC: 25Hz AC; 40Hz DC
Operating voltage	AC: 20...250V AC · AC/DC: 20...250V AC/DC
Voltage drop	≤8V AC/≤10V AC,8V DC
Load current	Max.load: 400mA; min.Load: 5mA
Residual signal	≤1.8mA/≤2.5mA
Hysteresis	<15%(Sr)

Repeatability	<1.0%(Sr)
Switch protection	Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	POM
Connection	2m PVC Cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS

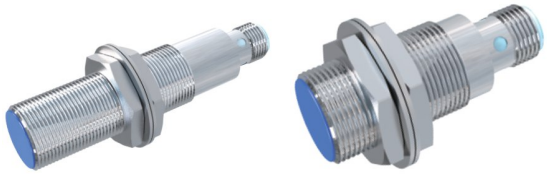


All dimensions in mm.

M18 Cylindrical Inductive Proximity Sensor

BIDS-M18-A14F5.0-A14F8.0-A24F5.0-A24F8.0-U15F5.0-U15F8.0-U25F5.0-U25F8.0-S124-S series · Switching Freq.: 25Hz/25Hz AC; 40Hz DC · Ambient Temp.: -25...70°C

IP67
Ingress Protection



①② ③④

KEY SPECIFICATIONS

SWITCHING FREQ. **25Hz/25Hz AC; 40Hz DC**	AMBIENT TEMP. **-25...70°C**
HOUSING **M18*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Flush mounting
- Strong anti-interference ability
- Multiple connection options available

MODEL CODES

Output Type	①	②	③	④
AC type — 20...250V AC · 25Hz				
N.O	BIDS-M18-A14F5.0-S124 SKU 10103718	BIDS-M18-A14F8.0-S124 SKU 10103736	BIDS-M18-A14F5.0-S124-S SKU 10103722	BIDS-M18-A14F8.0-S124-S SKU 10103740
N.C	BIDS-M18-A24F5.0-S124 SKU 10103719	BIDS-M18-A24F8.0-S124 SKU 10103737	BIDS-M18-A24F5.0-S124-S SKU 10103723	BIDS-M18-A24F8.0-S124-S SKU 10103741
AC/DC type — 20...250V AC/DC · 25Hz AC; 40Hz DC				
N.O	BIDS-M18-U15F5.0-S124 SKU 10103720	BIDS-M18-U15F8.0-S124 SKU 10103738	BIDS-M18-U15F5.0-S124-S SKU 10103724	BIDS-M18-U15F8.0-S124-S SKU 10103742
N.C	BIDS-M18-U25F5.0-S124 SKU 10103721	BIDS-M18-U25F8.0-S124 SKU 10103739	BIDS-M18-U25F5.0-S124-S SKU 10103725	BIDS-M18-U25F8.0-S124-S SKU 10103743

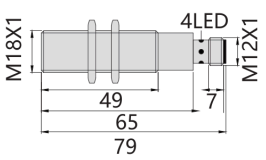
TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	①: 5mm(Flush) ②: 8mm(Flush) ③: 5mm(Flush) ④: 8mm(Flush)
Switching frequency	AC: 25Hz · AC/DC: 25Hz AC; 40Hz DC
Operating voltage	AC: 20...250V AC · AC/DC: 20...250V AC/DC
Voltage drop	≤8V AC/≤10V AC,8V DC
Load current	Max.load: 400mA; min.Load: 5mA
Residual signal	≤1.8mA/≤2.5mA
Hysteresis	<15%(Sr)

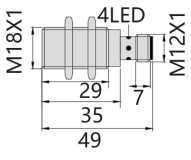
Repeatability	<1.0%(Sr)
Switch protection	Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	POM
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

M18X79 Connector ①②



M18X48 Connector ③④



All dimensions in mm.

M18 Cylindrical Inductive Proximity Sensor

BIDS-M18-A14N16-A24N16-A14N8.0-A24N8.0-U15N16-U25N16-U15N8.0-U25N8.0-PC2-S series · Switching Freq.: 25Hz/25Hz AC; 40Hz DC · Ambient Temp.: -25...70°C

IP67
Ingress Protection



①②



③④

KEY SPECIFICATIONS

SWITCHING FREQ. **25Hz/25Hz AC; 40Hz DC**	AMBIENT TEMP. **-25...70°C**
HOUSING **M18*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Non-flush mounting
- Strong anti-interference ability
- Multiple connection options available

MODEL CODES

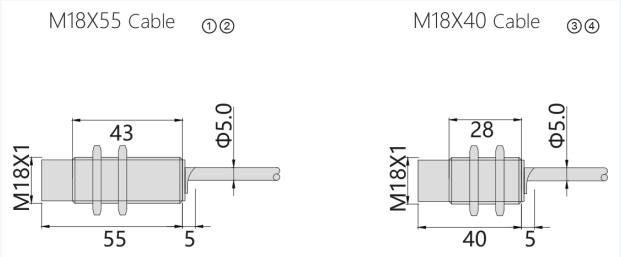
Output Type	①	②	③	④
AC type — 20...250V AC · 25Hz				
N.O	**BIDS-M18-A14N8.0-PC2** SKU 10103744	**BIDS-M18-A14N16-PC2** SKU 10103955	**BIDS-M18-A14N8.0-PC2-S** SKU 10103748	**BIDS-M18-A14N16-PC2-S** SKU 10103959
N.C	**BIDS-M18-A24N8.0-PC2** SKU 10103745	**BIDS-M18-A24N16-PC2** SKU 10103956	**BIDS-M18-A24N8.0-PC2-S** SKU 10103749	**BIDS-M18-A24N16-PC2-S** SKU 10103960
AC/DC type — 20...250V AC/DC · 25Hz AC; 40Hz DC				
N.O	**BIDS-M18-U15N8.0-PC2** SKU 10103746	**BIDS-M18-U15N16-PC2** SKU 10103957	**BIDS-M18-U15N8.0-PC2-S** SKU 10103750	**BIDS-M18-U15N16-PC2-S** SKU 10103961
N.C	**BIDS-M18-U25N8.0-PC2** SKU 10103747	**BIDS-M18-U25N16-PC2** SKU 10103958	**BIDS-M18-U25N8.0-PC2-S** SKU 10103751	**BIDS-M18-U25N16-PC2-S** SKU 10103962

TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	①: 8mm(Non-Flush) ②: 16mm(Non-Flush) ③: 8mm(Non-Flush) ④: 16mm(Non-Flush)
Switching frequency	AC: 25Hz · AC/DC: 25Hz AC; 40Hz DC
Operating voltage	AC: 20...250V AC · AC/DC: 20...250V AC/DC
Voltage drop	≤8V AC/≤10V AC,8V DC
Load current	Max.load: 400mA; min.Load: 5mA
Residual signal	≤1.8mA/≤2.5mA
Hysteresis	<15%(Sr)

Repeatability	<1.0%(Sr)
Switch protection	Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	POM
Connection	2m PVC Cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

M18 Cylindrical Inductive Proximity Sensor

BIDS-M18-A14N16-A24N16-A14N8.0-A24N8.0-U15N16-U25N16-U15N8.0-U25N8.0-S124-S series · Switching Freq.: 25Hz/25Hz AC; 40Hz DC · Ambient Temp.: -25...70°C

IP67
Ingress Protection



①②



③④

KEY SPECIFICATIONS

SWITCHING FREQ. **25Hz/25Hz AC; 40Hz DC**	AMBIENT TEMP. **-25...70°C**
HOUSING **M18*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Non-flush mounting
- Strong anti-interference ability
- Multiple connection options available

MODEL CODES

Output Type	①	②	③	④
AC type — 20...250V AC · 25Hz				
N.O	**BIDS-M18-A14N8.0-S124** SKU 10103752	**BIDS-M18-A14N16-S124** SKU 10103963	**BIDS-M18-A14N8.0-S124-S** SKU 10103756	**BIDS-M18-A14N16-S124-S** SKU 10103967
N.C	**BIDS-M18-A24N8.0-S124** SKU 10103753	**BIDS-M18-A24N16-S124** SKU 10103964	**BIDS-M18-A24N8.0-S124-S** SKU 10103757	**BIDS-M18-A24N16-S124-S** SKU 10103968
AC/DC type — 20...250V AC/DC · 25Hz AC; 40Hz DC				
N.O	**BIDS-M18-U15N8.0-S124** SKU 10103754	**BIDS-M18-U15N16-S124** SKU 10103965	**BIDS-M18-U15N8.0-S124-S** SKU 10103758	**BIDS-M18-U15N16-S124-S** SKU 10103969
N.C	**BIDS-M18-U25N8.0-S124** SKU 10103755	**BIDS-M18-U25N16-S124** SKU 10103966	**BIDS-M18-U25N8.0-S124-S** SKU 10103759	**BIDS-M18-U25N16-S124-S** SKU 10103970

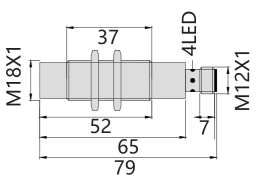
TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	①: 8mm(Non-Flush) ②: 16mm(Non-Flush) ③: 8mm(Non-Flush) ④: 16mm(Non-Flush)
Switching frequency	AC: 25Hz · AC/DC: 25Hz AC; 40Hz DC
Operating voltage	AC: 20...250V AC · AC/DC: 20...250V AC/DC
Voltage drop	≤8V AC/≤10V AC,8V DC
Load current	Max.load: 400mA; min.Load: 5mA
Residual signal	≤1.8mA/≤2.5mA
Hysteresis	<15%(Sr)

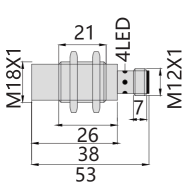
Repeatability	<1.0%(Sr)
Switch protection	Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	POM
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

M18X79 Connector ①②



M18X53 Connector ③④



All dimensions in mm.

M18 Cylindrical Inductive Proximity Sensor

BIDS-M18-F12-F8.0-PC2-S series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 3000Hz / 800Hz

IP67
Ingress Protection



①②



③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **3000Hz / 800Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M18*1mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Flush mounting
- Middle and long distance detection
- Multiple connection options available

MODEL CODES

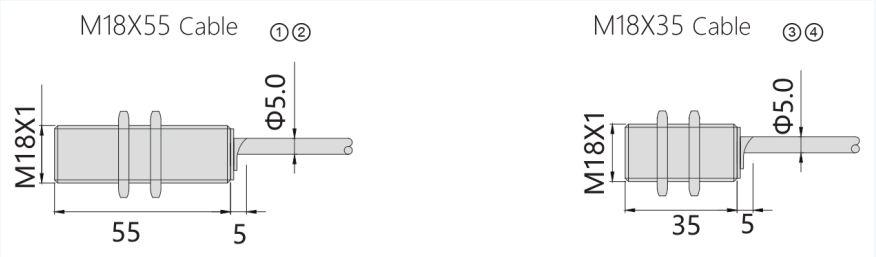
Output Type	①	②	③	④
NPN N.O	BIDS-M18-N11F8.0-PC2 SKU 10103760	BIDS-M18-N11F12-PC2 SKU 10103883	BIDS-M18-N11F8.0-PC2-S SKU 10103764	BIDS-M18-N11F12-PC2-S SKU 10103887
NPN N.C	BIDS-M18-N21F8.0-PC2 SKU 10103761	BIDS-M18-N21F12-PC2 SKU 10103884	BIDS-M18-N21F8.0-PC2-S SKU 10103765	BIDS-M18-N21F12-PC2-S SKU 10103888
PNP N.O	BIDS-M18-P11F8.0-PC2 SKU 10103762	BIDS-M18-P11F12-PC2 SKU 10103885	BIDS-M18-P11F8.0-PC2-S SKU 10103766	BIDS-M18-P11F12-PC2-S SKU 10103889
PNP N.C	BIDS-M18-P21F8.0-PC2 SKU 10103763	BIDS-M18-P21F12-PC2 SKU 10103886	BIDS-M18-P21F8.0-PC2-S SKU 10103767	BIDS-M18-P21F12-PC2-S SKU 10103890

TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	①: 8mm(Flush) ②: 12mm(Quasi-Flush) ③: 8mm(Flush) ④: 12mm(Quasi-Flush)
Switching frequency	①: 3000Hz ②: 800Hz ③: 3000Hz ④: 800Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)

Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	POM
Connection	2m PVC Cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

M18 Cylindrical Inductive Proximity Sensor

BIDS-M18-F12-F8.0-S124-S series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 3000Hz / 800Hz

IP67
Ingress Protection



①②



③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **3000Hz / 800Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M18*1mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Flush mounting
- Middle and long distance detection
- Multiple connection options available

MODEL CODES

Output Type	①	②	③	④
NPN N.O	BIDS-M18-N11F8.0-S124 SKU 10103768	BIDS-M18-N11F12-S124 SKU 10103891	BIDS-M18-N11F8.0-S124-S SKU 10103772	BIDS-M18-N11F12-S124-S SKU 10103895
NPN N.C	BIDS-M18-N21F8.0-S124 SKU 10103769	BIDS-M18-N21F12-S124 SKU 10103892	BIDS-M18-N21F8.0-S124-S SKU 10103773	BIDS-M18-N21F12-S124-S SKU 10103896
PNP N.O	BIDS-M18-P11F8.0-S124 SKU 10103770	BIDS-M18-P11F12-S124 SKU 10103893	BIDS-M18-P11F8.0-S124-S SKU 10103774	BIDS-M18-P11F12-S124-S SKU 10103897
PNP N.C	BIDS-M18-P21F8.0-S124 SKU 10103771	BIDS-M18-P21F12-S124 SKU 10103894	BIDS-M18-P21F8.0-S124-S SKU 10103775	BIDS-M18-P21F12-S124-S SKU 10103898

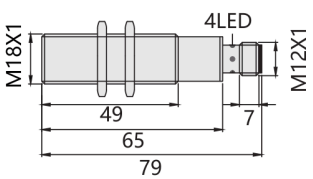
TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	①: 8mm(Flush) ②: 12mm(Quasi-Flush) ③: 8mm(Flush) ④: 12mm(Quasi-Flush)
Switching frequency	①: 3000Hz ②: 800Hz ③: 3000Hz ④: 800Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)

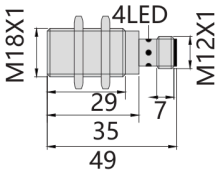
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	POM
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

M18X79 Connector ①②



M18X48 Connector ③④



All dimensions in mm.

M18 Cylindrical Inductive Proximity Sensor

BIDS-M18-N16-N20-PC2-S series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 500Hz / 400Hz

IP67
Ingress Protection



①②



③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **500Hz / 400Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M18*1mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Non-flush mounting
- Middle and long distance detection
- Multiple connection options available

MODEL CODES

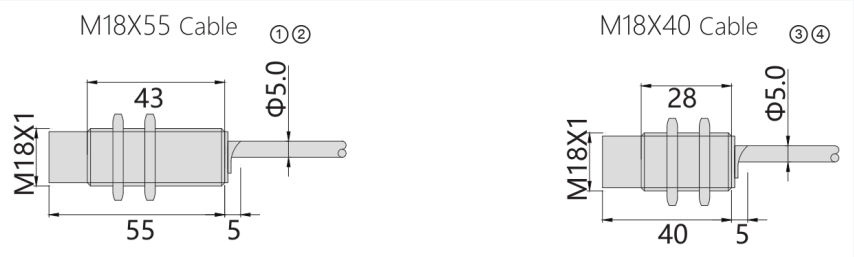
Output Type	①	②	③	④
NPN N.O	BIDS-M18-N11N16-PC2 SKU 10103923	BIDS-M18-N11N20-PC2 SKU 10103971	BIDS-M18-N11N16-PC2-S SKU 10103927	BIDS-M18-N11N20-PC2-S SKU 10103975
NPN N.C	BIDS-M18-N21N16-PC2 SKU 10103924	BIDS-M18-N21N20-PC2 SKU 10103972	BIDS-M18-N21N16-PC2-S SKU 10103928	BIDS-M18-N21N20-PC2-S SKU 10103976
PNP N.O	BIDS-M18-P11N16-PC2 SKU 10103925	BIDS-M18-P11N20-PC2 SKU 10103973	BIDS-M18-P11N16-PC2-S SKU 10103929	BIDS-M18-P11N20-PC2-S SKU 10103977
PNP N.C	BIDS-M18-P21N16-PC2 SKU 10103926	BIDS-M18-P21N20-PC2 SKU 10103974	BIDS-M18-P21N16-PC2-S SKU 10103930	BIDS-M18-P21N20-PC2-S SKU 10103978

TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	①: 16mm(Non-Flush) ②: 20mm(Non-Flush) ③: 16mm(Non-Flush) ④: 20mm(Non-Flush)
Switching frequency	①: 500Hz ②: 400Hz ③: 500Hz ④: 400Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)

Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	POM
Connection	2m PVC Cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

M18 Cylindrical Inductive Proximity Sensor

BIDS-M18-N16-N20-S124-S series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 500Hz / 400Hz

IP67
Ingress Protection



①②



③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **500Hz / 400Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M18*1mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Non-flush mounting
- Middle and long distance detection
- Multiple connection options available

MODEL CODES

Output Type	①	②	③	④
NPN N.O	BIDS-M18-N11N16-S124 SKU 10103931	BIDS-M18-N11N20-S124 SKU 10103979	BIDS-M18-N11N16-S124-S SKU 10103935	BIDS-M18-N11N20-S124-S SKU 10103983
NPN N.C	BIDS-M18-N21N16-S124 SKU 10103932	BIDS-M18-N21N20-S124 SKU 10103980	BIDS-M18-N21N16-S124-S SKU 10103936	BIDS-M18-N21N20-S124-S SKU 10103984
PNP N.O	BIDS-M18-P11N16-S124 SKU 10103933	BIDS-M18-P11N20-S124 SKU 10103981	BIDS-M18-P11N16-S124-S SKU 10103937	BIDS-M18-P11N20-S124-S SKU 10103985
PNP N.C	BIDS-M18-P21N16-S124 SKU 10103934	BIDS-M18-P21N20-S124 SKU 10103982	BIDS-M18-P21N16-S124-S SKU 10103938	BIDS-M18-P21N20-S124-S SKU 10103986

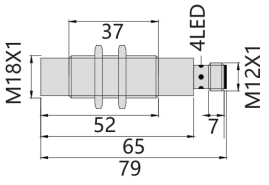
TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	①: 16mm(Non-Flush) ②: 20mm(Non-Flush) ③: 16mm(Non-Flush) ④: 20mm(Non-Flush)
Switching frequency	①: 500Hz ②: 400Hz ③: 500Hz ④: 400Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)

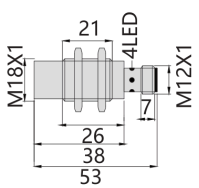
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	POM
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

M18X79 Connector ①②



M18X53 Connector ③④

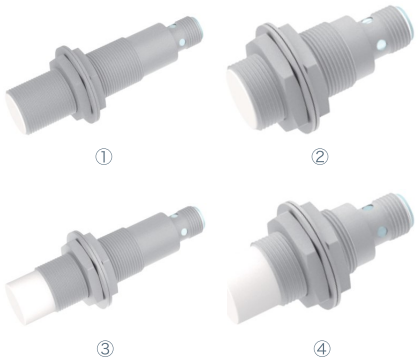


All dimensions in mm.

M18 Cylindrical Inductive Proximity Sensor

BIDT-M18-F8.0-N16-S124-S series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 3000Hz / 500Hz

IP67
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **3000Hz / 500Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M18*1mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Teflon-coated housing
- Proof to strong magnetic interference
- High resistance to interference and welding slags splashing

MODEL CODES

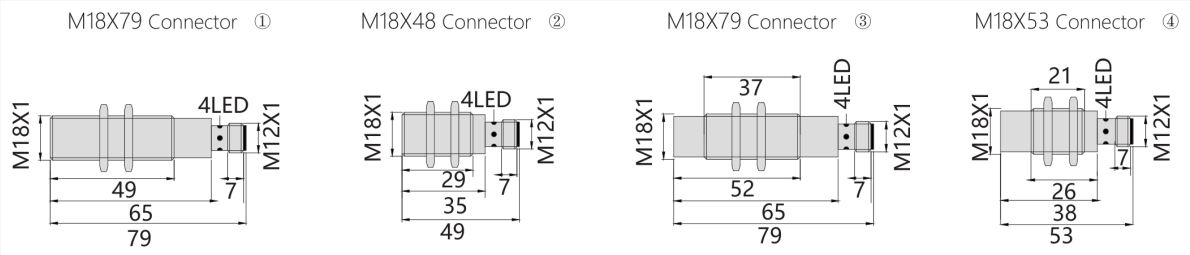
Output Type	①	②	③	④
NPN N.O	**BIDT-M18-N11F8.0-S124** SKU 10103821	**BIDT-M18-N11F8.0-S124-S** SKU 10103825	**BIDT-M18-N11N16-S124** SKU 10103915	**BIDT-M18-N11N16-S124-S** SKU 10103919
NPN N.C	**BIDT-M18-N21F8.0-S124** SKU 10103822	**BIDT-M18-N21F8.0-S124-S** SKU 10103826	**BIDT-M18-N21N16-S124** SKU 10103916	**BIDT-M18-N21N16-S124-S** SKU 10103920
PNP N.O	**BIDT-M18-P11F8.0-S124** SKU 10103823	**BIDT-M18-P11F8.0-S124-S** SKU 10103827	**BIDT-M18-P11N16-S124** SKU 10103917	**BIDT-M18-P11N16-S124-S** SKU 10103921
PNP N.C	**BIDT-M18-P21F8.0-S124** SKU 10103824	**BIDT-M18-P21F8.0-S124-S** SKU 10103828	**BIDT-M18-P21N16-S124** SKU 10103918	**BIDT-M18-P21N16-S124-S** SKU 10103922

TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	①: 8mm(Flush) ②: 8mm(Flush) ③: 16mm(Non-Flush) ④: 16mm(Non-Flush)
Switching frequency	①: 3000Hz ②: 3000Hz ③: 500Hz ④: 500Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)

Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, Teflon-plated
Sensing face material	PTFE
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

M18 Cylindrical Inductive Proximity Sensor

BIDH-M18-F5.0-G2-120 series · Sensing Distance: 5mm(Flush) · Operating Voltage: 10...30VDC(±10%)

IP66
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **5mm(Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...120°C**
HOUSING **M18*1mm**	INGRESS PROTECTION **IP66**

FEATURES

- High-precision stand-alone operation
- Built-in non-adjustable high precision amplifier
- Ambient temperature -25 ° C ~ 230 ° C

MODEL CODES

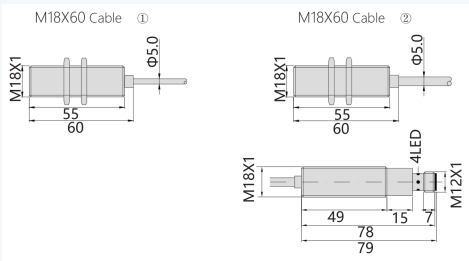
Output Type	Model Code
NPN N.O	**BIDH-M18-N11F5.0-G2-120** SKU 10103684
NPN N.C	**BIDH-M18-N21F5.0-G2-120** SKU 10103685
PNP N.O	**BIDH-M18-P11F5.0-G2-120** SKU 10103686
PNP N.C	**BIDH-M18-P21F5.0-G2-120** SKU 10103687

TECHNICAL DATA

Ambient temperature	-25...120°C
Exterior structure	M18*1mm
Sensing distance	5mm(Flush)
Switching frequency	500Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Amplifier	None
Load current	200mA/24V DC
No-load current	≤10mA(24V)
Hysteresis	<3...15%(Sr)

Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	None
Ingress protection	IP66
Housing material	Stainless steel
Sensing face material	PTFE
Connection	2m Silicone cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

M18 Cylindrical Inductive Proximity Sensor

BIDH-M18-N8.0-G2-120 series · Sensing Distance: 8mm(Non-Flush) · Operating Voltage: 10...30VDC(±10%)

IP66
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **8mm(Non-Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...120°C**
HOUSING **M18*1mm**	INGRESS PROTECTION **IP66**

FEATURES

- High-precision stand-alone operation
- Built-in non-adjustable high precision amplifier
- Ambient temperature -25 ° C ~ 230 ° C

MODEL CODES

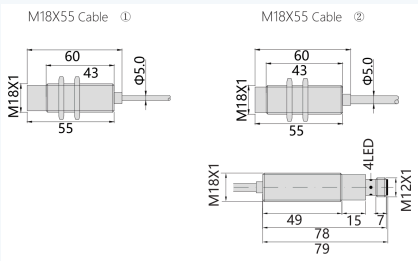
Output Type	Model Code
NPN N.O	**BIDH-M18-N11N8.0-G2-120** SKU 10103861
NPN N.C	**BIDH-M18-N21N8.0-G2-120** SKU 10103862
PNP N.O	**BIDH-M18-P11N8.0-G2-120** SKU 10103863
PNP N.C	**BIDH-M18-P21N8.0-G2-120** SKU 10103864

TECHNICAL DATA

Ambient temperature	-25...120°C
Exterior structure	M18*1mm
Sensing distance	8mm(Non-Flush)
Switching frequency	500Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Amplifier	None
Load current	200mA/24V DC
No-load current	≤10mA(24V)
Hysteresis	<3...15%(Sr)

Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	None
Ingress protection	IP66
Housing material	Stainless steel
Sensing face material	PTFE
Connection	2m Silicone cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

M18 Cylindrical Inductive Proximity Sensor

BIDM-M18-N8.0-PC2-S-S124 series · Sensing Distance: 8mm(Non-Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **8mm(Non-Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **100Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **M18*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- High protection level
- Collision proof
- Corrosion resistance

MODEL CODES

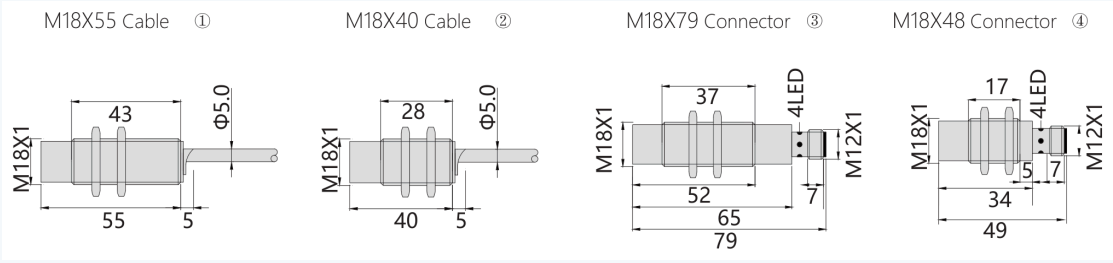
Output Type	①	②	③	④
NPN N.O	BIDM-M18-N11N8.0-PC2 SKU 10103805	BIDM-M18-N11N8.0-PC2-S SKU 10103809	BIDM-M18-N11N8.0-S124 SKU 10103813	BIDM-M18-N11N8.0-S124-S SKU 10103817
NPN N.C	BIDM-M18-N21N8.0-PC2 SKU 10103806	BIDM-M18-N21N8.0-PC2-S SKU 10103810	BIDM-M18-N21N8.0-S124 SKU 10103814	BIDM-M18-N21N8.0-S124-S SKU 10103818
PNP N.O	BIDM-M18-P11N8.0-PC2 SKU 10103807	BIDM-M18-P11N8.0-PC2-S SKU 10103811	BIDM-M18-P11N8.0-S124 SKU 10103815	BIDM-M18-P11N8.0-S124-S SKU 10103819
PNP N.C	BIDM-M18-P21N8.0-PC2 SKU 10103808	BIDM-M18-P21N8.0-PC2-S SKU 10103812	BIDM-M18-P21N8.0-S124 SKU 10103816	BIDM-M18-P21N8.0-S124-S SKU 10103820

TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	8mm(Non-Flush)
Switching frequency	100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)

Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Stainless steel
Sensing face material	Stainless steel
Connection	①: 2m PVC Cable, 3*0.35mm² ②: 2m PVC Cable, 3*0.35mm² ③: M12 Connector ④: M12 Connector
Accessories	①: None ②: None ③: M12 4 pin cable with connector ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

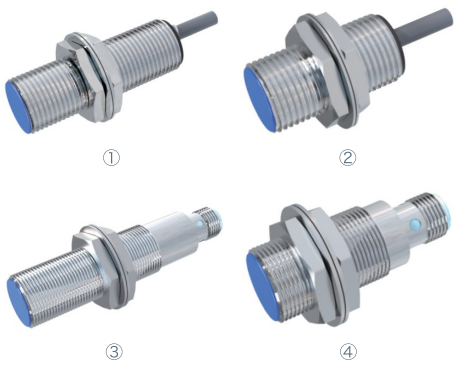


All dimensions in mm.

M18 Cylindrical Inductive Proximity Sensor

BIDS-M18-F8.0-PC2-S-S124 series · Sensing Distance: 8mm(Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **8mm(Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **3000Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **M18*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Flush mounting
- Mid-range detection
- Multiple connection options available

MODEL CODES

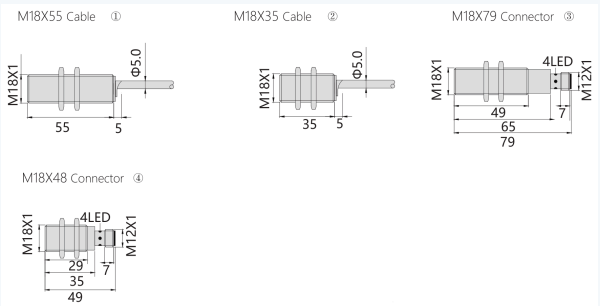
Output Type	①	②	③	④
NPN N.O+N.C	**BIDS-M18-N31F8.0-PC2** SKU 10103837	**BIDS-M18-N31F8.0-PC2-S** SKU 10103839	**BIDS-M18-N31F8.0-S124** SKU 10103841	**BIDS-M18-N31F8.0-S124-S** SKU 10103843
PNP N.O+N.C	**BIDS-M18-P31F8.0-PC2** SKU 10103838	**BIDS-M18-P31F8.0-PC2-S** SKU 10103840	**BIDS-M18-P31F8.0-S124** SKU 10103842	**BIDS-M18-P31F8.0-S124-S** SKU 10103844

TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	8mm(Flush)
Switching frequency	3000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)

Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	POM
Connection	①: 2m PVC Cable, 4*0.25mm² ②: 2m PVC Cable, 4*0.25mm² ③: M12 Connector ④: M12 Connector
Accessories	①: None ②: None ③: M12 4 pin cable with connector ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

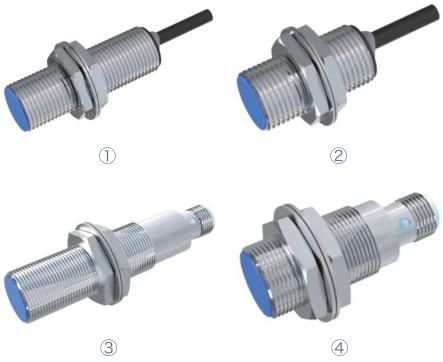


All dimensions in mm.

M18 Cylindrical Inductive Proximity Sensor

BIDW-M18-F8.0-UC2-S-S124 series · Sensing Distance: 8mm(Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **8mm(Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **3000Hz**	AMBIENT TEMP. **-40...85°C**
HOUSING **M18*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Low temperature resistance
- Suitable for cold storage, extremely cold environment
- Temperature-40°C...85°C

MODEL CODES

Output Type	①	②	③	④
NPN N.O	**BIDW-M18-N11F8.0-UC2** SKU 10103845	**BIDW-M18-N11F8.0-UC2-S** SKU 10103849	**BIDW-M18-N11F8.0-S124** SKU 10103853	**BIDW-M18-N11F8.0-S124-S** SKU 10103857
NPN N.C	**BIDW-M18-N21F8.0-UC2** SKU 10103846	**BIDW-M18-N21F8.0-UC2-S** SKU 10103850	**BIDW-M18-N21F8.0-S124** SKU 10103854	**BIDW-M18-N21F8.0-S124-S** SKU 10103858
PNP N.O	**BIDW-M18-P11F8.0-UC2** SKU 10103847	**BIDW-M18-P11F8.0-UC2-S** SKU 10103851	**BIDW-M18-P11F8.0-S124** SKU 10103855	**BIDW-M18-P11F8.0-S124-S** SKU 10103859
PNP N.C	**BIDW-M18-P21F8.0-UC2** SKU 10103848	**BIDW-M18-P21F8.0-UC2-S** SKU 10103852	**BIDW-M18-P21F8.0-S124** SKU 10103856	**BIDW-M18-P21F8.0-S124-S** SKU 10103860

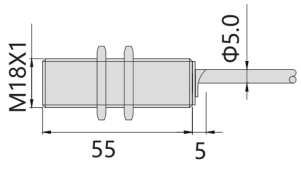
TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	8mm(Flush)
Switching frequency	3000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)

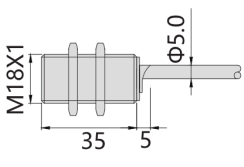
Ambient temperature	-40...85°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	①: 2m PUR Cable, 3*0.35mm² ②: 2m PUR Cable, 3*0.35mm² ③: M12 Connector ④: M12 Connector
Accessories	①: None ②: None ③: M12 4 pin cable with connector ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

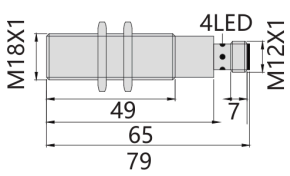
M18X55 Cable ①



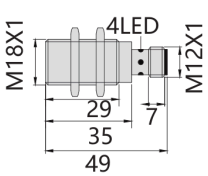
M18X35 Cable ②



M18X79 Connector ③



M18X48 Connector ④

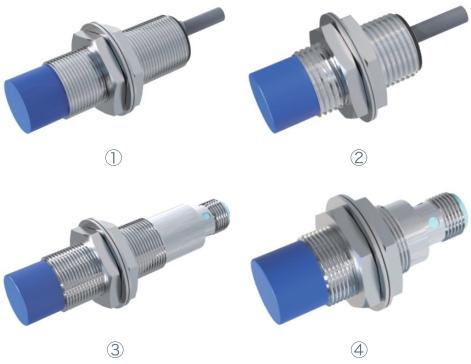


All dimensions in mm.

M18 Cylindrical Inductive Proximity Sensor

BIDS-M18-N16-PC2-S-S124 series · Sensing Distance: 16mm(Non-Flush) · Operating Voltage: 10...60VDC(±10%)

IP67
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **16mm(Non-Flush)**	OPERATING VOLTAGE **10...60VDC(±10%)**
SWITCHING FREQ. **300Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **M18*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Non-flush mounting
- Mid-range detection
- Multiple connection options available

MODEL CODES

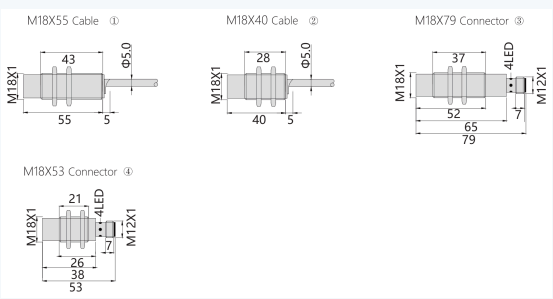
Output Type	①	②	③	④
N.O	**BIDS-M18-D13N16-PC2** SKU 10103939	**BIDS-M18-D13N16-PC2-S** SKU 10103941	**BIDS-M18-D13N16-S124** SKU 10103943	**BIDS-M18-D13N16-S124-S** SKU 10103945
N.C	**BIDS-M18-D23N16-PC2** SKU 10103940	**BIDS-M18-D23N16-PC2-S** SKU 10103942	**BIDS-M18-D23N16-S124** SKU 10103944	**BIDS-M18-D23N16-S124-S** SKU 10103946

TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	16mm(Non-Flush)
Switching frequency	300Hz
Operating voltage	10...60VDC(±10%)
Voltage drop	≤4.5V
Load current	200mA
Residual signal	≤0.5mA
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)

Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	POM
Connection	①: 2m PVC Cable, 2*0.5mm² ②: 2m PVC Cable, 2*0.5mm² ③: M12 Connector ④: M12 Connector
Accessories	①: None ②: None ③: M12 4 pin cable with connector ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

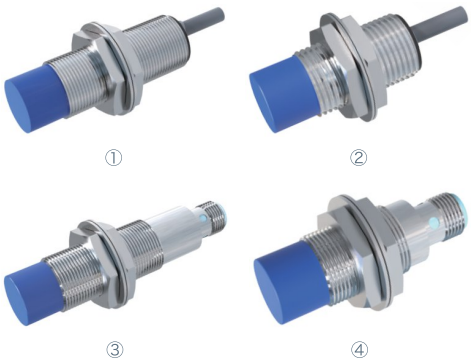


All dimensions in mm.

M18 Cylindrical Inductive Proximity Sensor

BIDS-M18-N31N16-P31N16-PC2-S-S124 series · Sensing Distance: 16mm(Non-Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **16mm(Non-Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **300Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **M18*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Non-flush mounting
- Mid-range detection
- Multiple connection options available

MODEL CODES

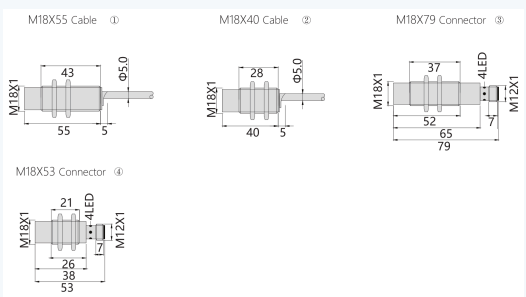
Output Type	①	②	③	④
NPN N.O+N.C	BIDS-M18-N31N16-PC2 SKU 10103947	BIDS-M18-N31N16-PC2-S SKU 10103949	BIDS-M18-N31N16-S124 SKU 10103951	BIDS-M18-N31N16-S124-S SKU 10103953
PNP N.O+N.C	BIDS-M18-P31N16-PC2 SKU 10103948	BIDS-M18-P31N16-PC2-S SKU 10103950	BIDS-M18-P31N16-S124 SKU 10103952	BIDS-M18-P31N16-S124-S SKU 10103954

TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	16mm(Non-Flush)
Switching frequency	300Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)

Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	POM
Connection	①: 2m PVC Cable, 4*0.25mm² ②: 2m PVC Cable, 4*0.25mm² ③: M12 Connector ④: M12 Connector
Accessories	①: None ②: None ③: M12 4 pin cable with connector ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

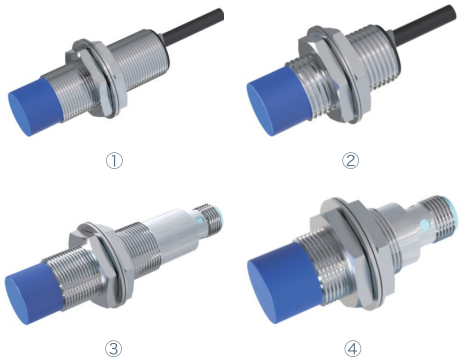


All dimensions in mm.

M18 Cylindrical Inductive Proximity Sensor

BIDW-M18-N16-UC2-S-S124 series · Sensing Distance: 16mm(Non-Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **16mm(Non-Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-40...85°C**
HOUSING **M18*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Low temperature resistance
- Suitable for cold storage, extremely cold environment
- Temperature-40°C...85°C

MODEL CODES

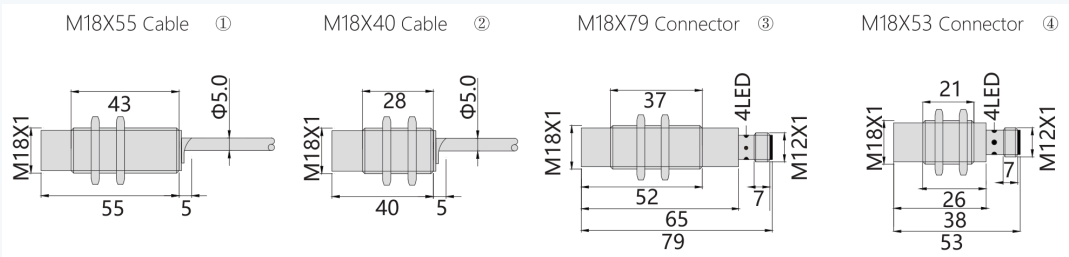
Output Type	①	②	③	④
NPN N.O	BIDW-M18-N11N16-UC2 SKU 10103899	BIDW-M18-N11N16-UC2-S SKU 10103903	BIDW-M18-N11N16-S124 SKU 10103907	BIDW-M18-N11N16-S124-S SKU 10103911
NPN N.C	BIDW-M18-N21N16-UC2 SKU 10103900	BIDW-M18-N21N16-UC2-S SKU 10103904	BIDW-M18-N21N16-S124 SKU 10103908	BIDW-M18-N21N16-S124-S SKU 10103912
PNP N.O	BIDW-M18-P11N16-UC2 SKU 10103901	BIDW-M18-P11N16-UC2-S SKU 10103905	BIDW-M18-P11N16-S124 SKU 10103909	BIDW-M18-P11N16-S124-S SKU 10103913
PNP N.C	BIDW-M18-P21N16-UC2 SKU 10103902	BIDW-M18-P21N16-UC2-S SKU 10103906	BIDW-M18-P21N16-S124 SKU 10103910	BIDW-M18-P21N16-S124-S SKU 10103914

TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	16mm(Non-Flush)
Switching frequency	500Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)

Ambient temperature	-40...85°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	POM
Connection	①: 2m PUR Cable, 3*0.35mm² ②: 2m PUR Cable, 3*0.35mm² ③: M12 Connector ④: M12 Connector
Accessories	①: None ②: None ③: M12 4 pin cable with connector ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

M18 Cylindrical Inductive Proximity Sensor — Factor 1

BIDF-M18-F8.0-PC2-S124 series · Sensing Distance: 8mm(Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



① ②

KEY SPECIFICATIONS

SENSING DISTANCE **8mm(Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **2000Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **M18*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Factor 1: equal sensing distance on all metals
- Detection of copper, iron, aluminum
- Application in the automotive industry

MODEL CODES

Output Type	①	②
NPN N.O	**BIDF-M18-N11F8.0-PC2** SKU 10103776	**BIDF-M18-N11F8.0-S124** SKU 10103780
NPN N.C	**BIDF-M18-N21F8.0-PC2** SKU 10103777	**BIDF-M18-N21F8.0-S124** SKU 10103781
PNP N.O	**BIDF-M18-P11F8.0-PC2** SKU 10103778	**BIDF-M18-P11F8.0-S124** SKU 10103782
PNP N.C	**BIDF-M18-P21F8.0-PC2** SKU 10103779	**BIDF-M18-P21F8.0-S124** SKU 10103783

TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	8mm(Flush)
Switching frequency	2000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PPS
Connection	①: 2m PVC Cable, 3*0.35mm² ②: M12 Connector
Accessories	①: None ②: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

M30 Cylindrical Inductive Proximity Sensor

BIAS-M30-I2F10-I2N14-M2F10-M2N14-V2F10-V2N14-PC2-S124 series · Operating Voltage: 18...30V DC · Switching Freq.: 100Hz

IP67
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **18...30V DC**	SWITCHING FREQ. **100Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M30*1.5mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Multiple analog output modes
- Good linearity

MODEL CODES

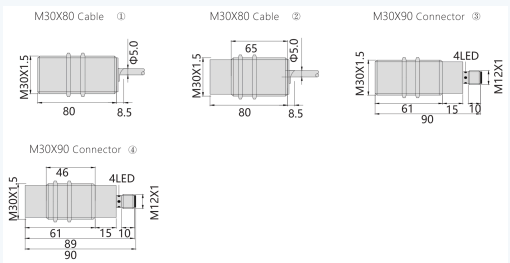
Output Type	①	②	③	④
Analog current 0...20 mA	**BIAS-M30-I2F10-PC2** SKU 10104040	**BIAS-M30-I2N14-PC2** SKU 10104112	**BIAS-M30-I2F10-S124** SKU 10104043	**BIAS-M30-I2N14-S124** SKU 10104115
Analog voltage 0...10 V	**BIAS-M30-V2F10-PC2** SKU 10104041	**BIAS-M30-V2N14-PC2** SKU 10104113	**BIAS-M30-V2F10-S124** SKU 10104044	**BIAS-M30-V2N14-S124** SKU 10104116
Analog current / voltage 0...20 mA / 0...10 V	**BIAS-M30-M2F10-PC2** SKU 10104042	**BIAS-M30-M2N14-PC2** SKU 10104114	**BIAS-M30-M2F10-S124** SKU 10104045	**BIAS-M30-M2N14-S124** SKU 10104117

TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	①: 5.0...10mm(Flush) ②: 7.0...14mm(Non-Flush) ③: 5.0...10mm(Flush) ④: 7.0...14mm(Non-Flush)
Operating voltage	18...30V DC
Switching frequency	100Hz
Output	0...20mA; <400Ω/0...10VDC; >2000Ω
No-load current	<35mA
Hysteresis	<10%(Sr)
Repeatability	<2%(Sr)
Linear accuracy	<5%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	None
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	①: 2m PVC Cable, 3*0.35mm² /4*0.25mm² ②: 2m PVC Cable, 3*0.35mm² /4*0.25mm² ③: M12 Connector ④: M12 Connector
Accessories	①: None ②: None ③: M12 4 pin cable with connector ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

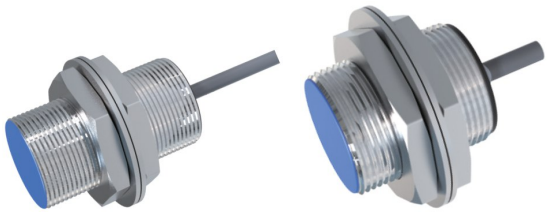


All dimensions in mm.

M30 Cylindrical Inductive Proximity Sensor

BIDS-M30-A14F10-A14F16-A24F10-A24F16-U15F10-U15F16-U25F10-U25F16-PC2-S series · Switching Freq.: 25Hz/25Hz AC; 40Hz DC · Ambient Temp.: -25...70°C

IP67
Ingress Protection



①② ③④

KEY SPECIFICATIONS

SWITCHING FREQ. **25Hz/25Hz AC; 40Hz DC**	AMBIENT TEMP. **-25...70°C**
HOUSING **M30*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Flush mounting
- Strong anti-interference ability
- Multiple connection options available

MODEL CODES

Output Type	①	②	③	④
AC type — 20...250V AC · 25Hz				
N.O	BIDS-M30-A14F10-PC2 SKU 10104027	BIDS-M30-A14F16-PC2 SKU 10104257	BIDS-M30-A14F10-PC2-S SKU 10104031	BIDS-M30-A14F16-PC2-S SKU 10104261
N.C	BIDS-M30-A24F10-PC2 SKU 10104028	BIDS-M30-A24F16-PC2 SKU 10104258	BIDS-M30-A24F10-PC2-S SKU 10104032	BIDS-M30-A24F16-PC2-S SKU 10104262
AC/DC type — 20...250V AC/DC · 25Hz AC; 40Hz DC				
N.O	BIDS-M30-U15F10-PC2 SKU 10104029	BIDS-M30-U15F16-PC2 SKU 10104259	BIDS-M30-U15F10-PC2-S SKU 10104033	BIDS-M30-U15F16-PC2-S SKU 10104263
N.C	BIDS-M30-U25F10-PC2 SKU 10104030	BIDS-M30-U25F16-PC2 SKU 10104260	BIDS-M30-U25F10-PC2-S SKU 10104034	BIDS-M30-U25F16-PC2-S SKU 10104264

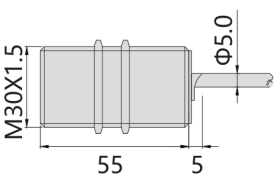
TECHNICAL DATA

Exterior structure	M30*1mm
Sensing distance	①: 10mm(Flush) ②: 16mm(Flush) ③: 10mm(Flush) ④: 16mm(Flush)
Switching frequency	AC: 25Hz · AC/DC: 25Hz AC; 40Hz DC
Operating voltage	AC: 20...250V AC · AC/DC: 20...250V AC/DC
Voltage drop	≤8V AC/≤10V AC,8V DC
Load current	Max.load: 400mA; min.Load: 5mA
Residual signal	≤1.8mA/≤2.5mA
Hysteresis	<15%(Sr)

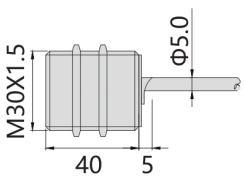
Repeatability	<1.0%(Sr)
Switch protection	Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	2m PVC Cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS

M30X55 Cable ①②



M30X40 Cable ③④



All dimensions in mm.

M30 Cylindrical Inductive Proximity Sensor

BIDS-M30-A14F10-A14F16-A24F10-A24F16-U15F10-U15F16-U25F10-U25F16-S124 series · Switching Freq.: 25Hz/25Hz AC; 40Hz DC · Ambient Temp.: -25...70°C

IP67
Ingress Protection



KEY SPECIFICATIONS

SWITCHING FREQ. **25Hz/25Hz AC; 40Hz DC**	AMBIENT TEMP. **-25...70°C**
HOUSING **M30*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Flush mounting
- Strong anti-interference ability
- Multiple connection options available

MODEL CODES

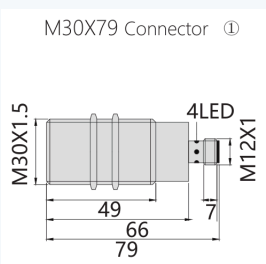
Output Type	10mm(Flush)	16mm(Flush)
AC type — 20...250V AC · 25Hz		
N.O	**BIDS-M30-A14F10-S124** SKU 10104035	**BIDS-M30-A14F16-S124** SKU 10104265
N.C	**BIDS-M30-A24F10-S124** SKU 10104036	**BIDS-M30-A24F16-S124** SKU 10104266
AC/DC type — 20...250V AC/DC · 25Hz AC; 40Hz DC		
N.O	**BIDS-M30-U15F10-S124** SKU 10104037	**BIDS-M30-U15F16-S124** SKU 10104267
N.C	**BIDS-M30-U25F10-S124** SKU 10104038	**BIDS-M30-U25F16-S124** SKU 10104268

TECHNICAL DATA

Exterior structure	M30*1mm
Sensing distance	10mm(Flush) 16mm(Flush)
Switching frequency	AC: 25Hz · AC/DC: 25Hz AC; 40Hz DC
Operating voltage	AC: 20...250V AC · AC/DC: 20...250V AC/DC
Voltage drop	≤8V AC/≤10V AC,8V DC
Load current	Max.load: 400mA; min.Load: 5mA
Residual signal	≤1.8mA/≤2.5mA
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)

Switch protection	Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

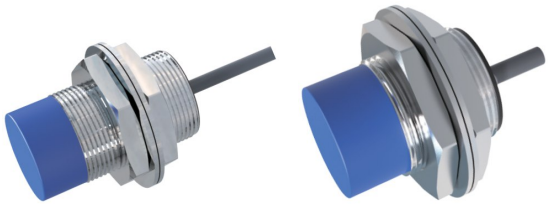


All dimensions in mm.

M30 Cylindrical Inductive Proximity Sensor

BIDS-M30-A14N15-A14N25-A24N15-A24N25-U15N15-U15N25-U25N15-U25N25-PC2-S series · Switching Freq.: 25Hz/25Hz AC; 40Hz DC · Ambient Temp.: -25...70°C

IP67
Ingress Protection



①② ③④

KEY SPECIFICATIONS

SWITCHING FREQ. **25Hz/25Hz AC; 40Hz DC**	AMBIENT TEMP. **-25...70°C**
HOUSING **M30*1.5mm**	INGRESS PROTECTION **IP67**

FEATURES

- Non-flush mounting
- Strong anti-interference ability
- Multiple connection options available

MODEL CODES

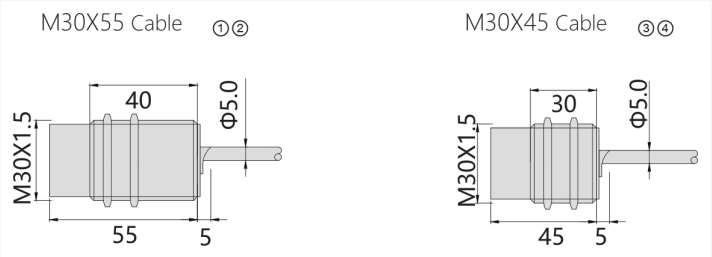
Output Type	①	②	③	④
AC type — 20...250V AC · 25Hz				
N.O	BIDS-M30-A14N15-PC2 SKU 10104150	BIDS-M30-A14N25-PC2 SKU 10104317	BIDS-M30-A14N15-PC2-S SKU 10104154	BIDS-M30-A14N25-PC2-S SKU 10104321
N.C	BIDS-M30-A24N15-PC2 SKU 10104151	BIDS-M30-A24N25-PC2 SKU 10104318	BIDS-M30-A24N15-PC2-S SKU 10104155	BIDS-M30-A24N25-PC2-S SKU 10104322
AC/DC type — 20...250V AC/DC · 25Hz AC; 40Hz DC				
N.O	BIDS-M30-U15N15-PC2 SKU 10104152	BIDS-M30-U15N25-PC2 SKU 10104319	BIDS-M30-U15N15-PC2-S SKU 10104156	BIDS-M30-U15N25-PC2-S SKU 10104323
N.C	BIDS-M30-U25N15-PC2 SKU 10104153	BIDS-M30-U25N25-PC2 SKU 10104320	BIDS-M30-U25N15-PC2-S SKU 10104157	BIDS-M30-U25N25-PC2-S SKU 10104324

TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	①: 15mm(Non-Flush) ②: 25mm(Non-Flush) ③: 15mm(Non-Flush) ④: 25mm(Non-Flush)
Switching frequency	AC: 25Hz · AC/DC: 25Hz AC; 40Hz DC
Operating voltage	AC: 20...250V AC · AC/DC: 20...250V AC/DC
Voltage drop	≤8V AC/≤10V AC,8V DC
Load current	Max.load: 400mA; min.Load: 5mA
Residual signal	≤1.8mA/≤2.5mA
Hysteresis	<15%(Sr)

Repeatability	<1.0%(Sr)
Switch protection	Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	2m PVC Cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

M30 Cylindrical Inductive Proximity Sensor

BIDS-M30-A14N15-A14N25-A24N15-A24N25-U15N15-U15N25-U25N15-U25N25-S124 series · Switching Freq.: 25Hz/25Hz AC; 40Hz DC · Ambient Temp.: -25...70°C

IP67
Ingress Protection



KEY SPECIFICATIONS

SWITCHING FREQ. **25Hz/25Hz AC; 40Hz DC**	AMBIENT TEMP. **-25...70°C**
HOUSING **M30*1.5mm**	INGRESS PROTECTION **IP67**

FEATURES

- Non-flush mounting
- Strong anti-interference ability
- Multiple connection options available

MODEL CODES

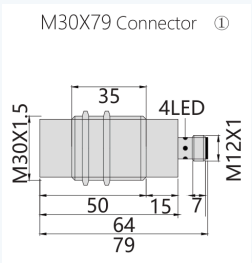
Output Type		
AC type — 20...250V AC · 25Hz		
N.O	**BIDS-M30-A14N15-S124** SKU 10104158	**BIDS-M30-A14N25-S124** SKU 10104325
N.C	**BIDS-M30-A24N15-S124** SKU 10104159	**BIDS-M30-A24N25-S124** SKU 10104326
AC/DC type — 20...250V AC/DC · 25Hz AC; 40Hz DC		
N.O	**BIDS-M30-U15N15-S124** SKU 10104160	**BIDS-M30-U15N25-S124** SKU 10104327
N.C	**BIDS-M30-U25N15-S124** SKU 10104161	**BIDS-M30-U25N25-S124** SKU 10104328

TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	①: 15mm(Non-Flush) ②: 25mm(Non-Flush)
Switching frequency	AC: 25Hz · AC/DC: 25Hz AC; 40Hz DC
Operating voltage	AC: 20...250V AC · AC/DC: 20...250V AC/DC
Voltage drop	≤8V AC/≤10V AC,8V DC
Load current	Max.load: 400mA; min.Load: 5mA
Residual signal	≤1.8mA/≤2.5mA
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)

Switch protection	Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

M30 Cylindrical Inductive Proximity Sensor

BIDS-M30-F10-F16-F22-PC2 series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 300Hz / 100Hz

IP67
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **300Hz / 100Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M30*1.5mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Flush mounting
- Middle and long distance detection
- Multiple connection options available

MODEL CODES

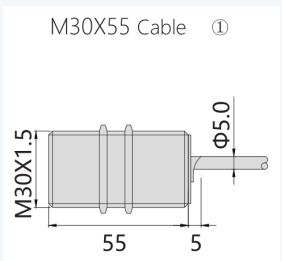
Output Type			
NPN N.O	**BIDS-M30-N11F10-PC2** SKU 10103995	**BIDS-M30-N11F16-PC2** SKU 10104225	**BIDS-M30-N11F22-PC2** SKU 10104269
NPN N.C	**BIDS-M30-N21F10-PC2** SKU 10103996	**BIDS-M30-N21F16-PC2** SKU 10104226	**BIDS-M30-N21F22-PC2** SKU 10104270
PNP N.O	**BIDS-M30-P11F10-PC2** SKU 10103997	**BIDS-M30-P11F16-PC2** SKU 10104227	**BIDS-M30-P11F22-PC2** SKU 10104271
PNP N.C	**BIDS-M30-P21F10-PC2** SKU 10103998	**BIDS-M30-P21F16-PC2** SKU 10104228	**BIDS-M30-P21F22-PC2** SKU 10104272

TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	①: 10mm(Flush) ②: 16mm(Flush) ③: 22mm(Quasi-Flush)
Switching frequency	①: 300Hz ②: 300Hz ③: 100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)

Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	2m PVC Cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

M30 Cylindrical Inductive Proximity Sensor

BIDS-M30-F10-F16-F22-PC2-S series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 300Hz / 100Hz

IP67
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **300Hz / 100Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M30*1.5mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Flush mounting
- Middle and long distance detection
- Multiple connection options available

MODEL CODES

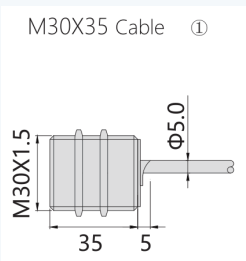
Output Type			
NPN N.O	**BIDS-M30-N11F10-PC2-S** SKU 10103999	**BIDS-M30-N11F16-PC2-S** SKU 10104229	**BIDS-M30-N11F22-PC2-S** SKU 10104273
NPN N.C	**BIDS-M30-N21F10-PC2-S** SKU 10104000	**BIDS-M30-N21F16-PC2-S** SKU 10104230	**BIDS-M30-N21F22-PC2-S** SKU 10104274
PNP N.O	**BIDS-M30-P11F10-PC2-S** SKU 10104001	**BIDS-M30-P11F16-PC2-S** SKU 10104231	**BIDS-M30-P11F22-PC2-S** SKU 10104275
PNP N.C	**BIDS-M30-P21F10-PC2-S** SKU 10104002	**BIDS-M30-P21F16-PC2-S** SKU 10104232	**BIDS-M30-P21F22-PC2-S** SKU 10104276

TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	①: 10mm(Flush) ②: 16mm(Flush) ③: 22mm(Quasi-Flush)
Switching frequency	①: 300Hz ②: 300Hz ③: 100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)

Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	2m PVC Cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

M30 Cylindrical Inductive Proximity Sensor

BIDS-M30-F10-F16-F22-S124 series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 300Hz / 100Hz

IP67
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **300Hz / 100Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M30*1.5mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Flush mounting
- Middle and long distance detection
- Multiple connection options available

MODEL CODES

Output Type			
NPN N.O	**BIDS-M30-N11F10-S124** SKU 10104003	**BIDS-M30-N11F16-S124** SKU 10104233	**BIDS-M30-N11F22-S124** SKU 10104277
NPN N.C	**BIDS-M30-N21F10-S124** SKU 10104004	**BIDS-M30-N21F16-S124** SKU 10104234	**BIDS-M30-N21F22-S124** SKU 10104278
PNP N.O	**BIDS-M30-P11F10-S124** SKU 10104005	**BIDS-M30-P11F16-S124** SKU 10104235	**BIDS-M30-P11F22-S124** SKU 10104279
PNP N.C	**BIDS-M30-P21F10-S124** SKU 10104006	**BIDS-M30-P21F16-S124** SKU 10104236	**BIDS-M30-P21F22-S124** SKU 10104280

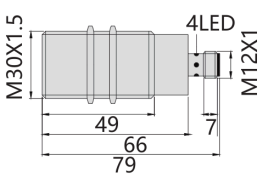
TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	①: 10mm(Flush) ②: 16mm(Flush) ③: 22mm(Quasi-Flush)
Switching frequency	①: 300Hz ②: 300Hz ③: 100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)

Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

M30X79 Connector ①



All dimensions in mm.

M30 Cylindrical Inductive Proximity Sensor

BIDS-M30-F10-F16-F22-S124-S series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 300Hz / 100Hz

IP67
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **300Hz / 100Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M30*1.5mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Flush mounting
- Middle and long distance detection
- Multiple connection options available

MODEL CODES

Output Type			
NPN N.O	**BIDS-M30-N11F10-S124-S** SKU 10104007	**BIDS-M30-N11F16-S124-S** SKU 10104237	**BIDS-M30-N11F22-S124-S** SKU 10104281
NPN N.C	**BIDS-M30-N21F10-S124-S** SKU 10104008	**BIDS-M30-N21F16-S124-S** SKU 10104238	**BIDS-M30-N21F22-S124-S** SKU 10104282
PNP N.O	**BIDS-M30-P11F10-S124-S** SKU 10104009	**BIDS-M30-P11F16-S124-S** SKU 10104239	**BIDS-M30-P11F22-S124-S** SKU 10104283
PNP N.C	**BIDS-M30-P21F10-S124-S** SKU 10104010	**BIDS-M30-P21F16-S124-S** SKU 10104240	**BIDS-M30-P21F22-S124-S** SKU 10104284

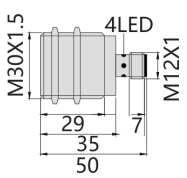
TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	①: 10mm(Flush) ②: 16mm(Flush) ③: 22mm(Quasi-Flush)
Switching frequency	①: 300Hz ②: 300Hz ③: 100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)

Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

M30X48 Connector ①

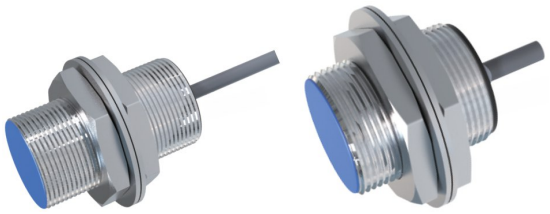


All dimensions in mm.

M30 Cylindrical Inductive Proximity Sensor

BIDS-M30-F10-F16-PC2-S series · Operating Voltage: 10...60VDC(±10%) · Switching Freq.: 300Hz / 150Hz

IP67
Ingress Protection



①② ③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...60VDC(±10%)**	SWITCHING FREQ. **300Hz / 150Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M30*1.5mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Flush mounting
- Strong anti-interference ability
- Multiple connection options available

MODEL CODES

Output Type	①	②	③	④
N.O	**BIDS-M30-D13F10-PC2** SKU 10104011	**BIDS-M30-D13F16-PC2** SKU 10104241	**BIDS-M30-D13F10-PC2-S** SKU 10104013	**BIDS-M30-D13F16-PC2-S** SKU 10104243
N.C	**BIDS-M30-D23F10-PC2** SKU 10104012	**BIDS-M30-D23F16-PC2** SKU 10104242	**BIDS-M30-D23F10-PC2-S** SKU 10104014	**BIDS-M30-D23F16-PC2-S** SKU 10104244

TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	①: 10mm(Flush) ②: 16mm(Flush) ③: 10mm(Flush) ④: 16mm(Flush)
Switching frequency	①: 300Hz ②: 150Hz ③: 300Hz ④: 150Hz
Operating voltage	10...60VDC(±10%)
Voltage drop	≤4.5V
Load current	200mA
Residual signal	≤0.5mA
Hysteresis	<15%(Sr)

Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	2m PVC Cable, 2*0.5mm²
Accessories	None

DIMENSIONAL DRAWINGS

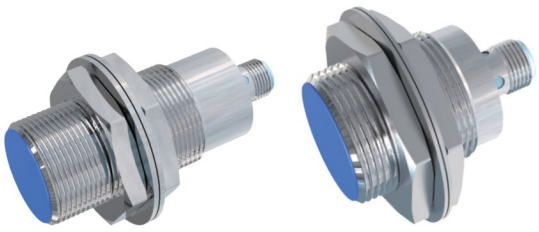


All dimensions in mm.

M30 Cylindrical Inductive Proximity Sensor

BIDS-M30-F10-F16-S124-S series · Operating Voltage: 10...60VDC(±10%) · Switching Freq.: 300Hz / 150Hz

IP67
Ingress Protection



①② ③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...60VDC(±10%)**	SWITCHING FREQ. **300Hz / 150Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M30*1.5mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Flush mounting
- Strong anti-interference ability
- Multiple connection options available

MODEL CODES

Output Type	①	②	③	④
N.O	**BIDS-M30-D13F10-S124** SKU 10104015	**BIDS-M30-D13F16-S124** SKU 10104245	**BIDS-M30-D13F10-S124-S** SKU 10104017	**BIDS-M30-D13F16-S124-S** SKU 10104247
N.C	**BIDS-M30-D23F10-S124** SKU 10104016	**BIDS-M30-D23F16-S124** SKU 10104246	**BIDS-M30-D23F10-S124-S** SKU 10104018	**BIDS-M30-D23F16-S124-S** SKU 10104248

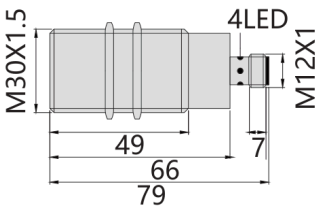
TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	①: 10mm(Flush) ②: 16mm(Flush) ③: 10mm(Flush) ④: 16mm(Flush)
Switching frequency	①: 300Hz ②: 150Hz ③: 300Hz ④: 150Hz
Operating voltage	10...60VDC(±10%)
Voltage drop	≤4.5V
Load current	200mA
Residual signal	≤0.5mA
Hysteresis	<15%(Sr)

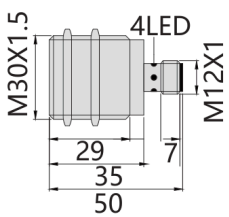
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

M30X79 Connector ①②



M30X48 Connector ③④

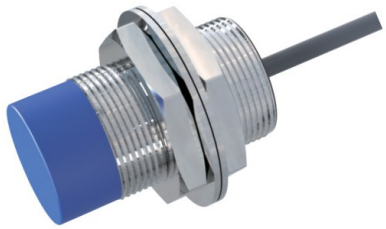


All dimensions in mm.

M30 Cylindrical Inductive Proximity Sensor

BIDS-M30-N15-N25-N40-PC2 series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 300Hz / 100Hz

IP67
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **300Hz / 100Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M30*1.5mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Non-flush mounting
- Middle and long distance detection
- Multiple connection options available

MODEL CODES

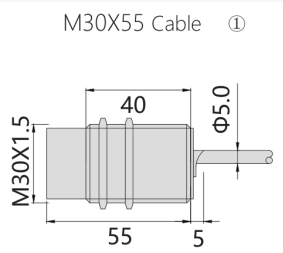
Output Type			
NPN N.O	**BIDS-M30-N11N15-PC2** SKU 10104118	**BIDS-M30-N11N25-PC2** SKU 10104285	**BIDS-M30-N11N40-PC2** SKU 10104329
NPN N.C	**BIDS-M30-N21N15-PC2** SKU 10104119	**BIDS-M30-N21N25-PC2** SKU 10104286	**BIDS-M30-N21N40-PC2** SKU 10104330
PNP N.O	**BIDS-M30-P11N15-PC2** SKU 10104120	**BIDS-M30-P11N25-PC2** SKU 10104287	**BIDS-M30-P11N40-PC2** SKU 10104331
PNP N.C	**BIDS-M30-P21N15-PC2** SKU 10104121	**BIDS-M30-P21N25-PC2** SKU 10104288	**BIDS-M30-P21N40-PC2** SKU 10104332

TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	①: 15mm(Non-Flush) ②: 25mm(Non-Flush) ③: 40mm(Non-Flush)
Switching frequency	①: 300Hz ②: 300Hz ③: 100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)

Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	2m PVC Cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

M30 Cylindrical Inductive Proximity Sensor

BIDS-M30-N15-N25-N40-PC2-S series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 300Hz / 100Hz

IP67
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **300Hz / 100Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M30*1.5mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Non-flush mounting
- Middle and long distance detection
- Multiple connection options available

MODEL CODES

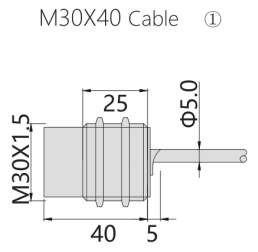
Output Type			
NPN N.O	**BIDS-M30-N11N15-PC2-S** SKU 10104122	**BIDS-M30-N11N25-PC2-S** SKU 10104289	**BIDS-M30-N11N40-PC2-S** SKU 10104333
NPN N.C	**BIDS-M30-N21N15-PC2-S** SKU 10104123	**BIDS-M30-N21N25-PC2-S** SKU 10104290	**BIDS-M30-N21N40-PC2-S** SKU 10104334
PNP N.O	**BIDS-M30-P11N15-PC2-S** SKU 10104124	**BIDS-M30-P11N25-PC2-S** SKU 10104291	**BIDS-M30-P11N40-PC2-S** SKU 10104335
PNP N.C	**BIDS-M30-P21N15-PC2-S** SKU 10104125	**BIDS-M30-P21N25-PC2-S** SKU 10104292	**BIDS-M30-P21N40-PC2-S** SKU 10104336

TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	①: 15mm(Non-Flush) ②: 25mm(Non-Flush) ③: 40mm(Non-Flush)
Switching frequency	①: 300Hz ②: 300Hz ③: 100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)

Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	2m PVC Cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

M30 Cylindrical Inductive Proximity Sensor

BIDS-M30-N15-N25-N40-S124 series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 300Hz / 100Hz

IP67
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **300Hz / 100Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M30*1.5mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Non-flush mounting
- Middle and long distance detection
- Multiple connection options available

MODEL CODES

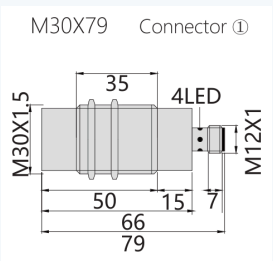
Output Type			
NPN N.O	**BIDS-M30-N11N15-S124** SKU 10104126	**BIDS-M30-N11N25-S124** SKU 10104293	**BIDS-M30-N11N40-S124** SKU 10104337
NPN N.C	**BIDS-M30-N21N15-S124** SKU 10104127	**BIDS-M30-N21N25-S124** SKU 10104294	**BIDS-M30-N21N40-S124** SKU 10104338
PNP N.O	**BIDS-M30-P11N15-S124** SKU 10104128	**BIDS-M30-P11N25-S124** SKU 10104295	**BIDS-M30-P11N40-S124** SKU 10104339
PNP N.C	**BIDS-M30-P21N15-S124** SKU 10104129	**BIDS-M30-P21N25-S124** SKU 10104296	**BIDS-M30-P21N40-S124** SKU 10104340

TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	①: 15mm(Non-Flush) ②: 25mm(Non-Flush) ③: 40mm(Non-Flush)
Switching frequency	①: 300Hz ②: 300Hz ③: 100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)

Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

M30 Cylindrical Inductive Proximity Sensor

BIDS-M30-N15-N25-N40-S124-S series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 300Hz / 100Hz

IP67
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **300Hz / 100Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M30*1.5mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Non-flush mounting
- Middle and long distance detection
- Multiple connection options available

MODEL CODES

Output Type			
NPN N.O	**BIDS-M30-N11N15-S124-S** SKU 10104130	**BIDS-M30-N11N25-S124-S** SKU 10104297	**BIDS-M30-N11N40-S124-S** SKU 10104341
NPN N.C	**BIDS-M30-N21N15-S124-S** SKU 10104131	**BIDS-M30-N21N25-S124-S** SKU 10104298	**BIDS-M30-N21N40-S124-S** SKU 10104342
PNP N.O	**BIDS-M30-P11N15-S124-S** SKU 10104132	**BIDS-M30-P11N25-S124-S** SKU 10104299	**BIDS-M30-P11N40-S124-S** SKU 10104343
PNP N.C	**BIDS-M30-P21N15-S124-S** SKU 10104133	**BIDS-M30-P21N25-S124-S** SKU 10104300	**BIDS-M30-P21N40-S124-S** SKU 10104344

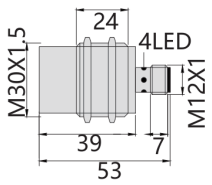
TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	①: 15mm(Non-Flush) ②: 25mm(Non-Flush) ③: 40mm(Non-Flush)
Switching frequency	①: 300Hz ②: 300Hz ③: 100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)

Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	M12Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

M30X53 Connector ①

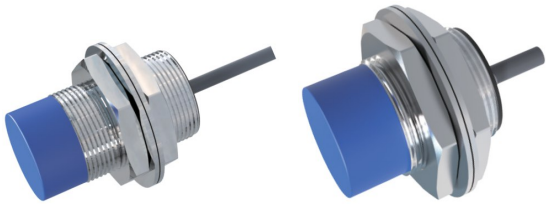


All dimensions in mm.

M30 Cylindrical Inductive Proximity Sensor

BIDS-M30-N15-N25-PC2-S series · Operating Voltage: 10...60VDC(±10%) · Switching Freq.: 300Hz / 150Hz

IP67
Ingress Protection



①② ③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...60VDC(±10%)**	SWITCHING FREQ. **300Hz / 150Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M30*1.5mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Non-flush mounting
- Strong anti-interference ability
- Multiple connection options available

MODEL CODES

Output Type	①	②	③	④
N.O	**BIDS-M30-D13N15-PC2** SKU 10104134	**BIDS-M30-D13N25-PC2** SKU 10104301	**BIDS-M30-D13N15-PC2-S** SKU 10104136	**BIDS-M30-D13N25-PC2-S** SKU 10104303
N.C	**BIDS-M30-D23N15-PC2** SKU 10104135	**BIDS-M30-D23N25-PC2** SKU 10104302	**BIDS-M30-D23N15-PC2-S** SKU 10104137	**BIDS-M30-D23N25-PC2-S** SKU 10104304

TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	①: 15mm(Non-Flush) ②: 25mm(Non-Flush) ③: 15mm(Non-Flush) ④: 25mm(Non-Flush)
Switching frequency	①: 300Hz ②: 150Hz ③: 300Hz ④: 150Hz
Operating voltage	10...60VDC(±10%)
Voltage drop	≤4.5V
Load current	200mA
Residual signal	≤0.5mA
Hysteresis	<15%(Sr)

Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	2m PVC Cable, 2*0.5mm²
Accessories	None

DIMENSIONAL DRAWINGS

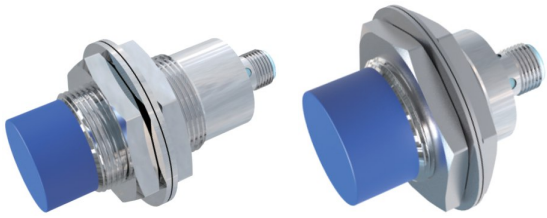


All dimensions in mm.

M30 Cylindrical Inductive Proximity Sensor

BIDS-M30-N15-N25-S124-S series · Operating Voltage: 10...60VDC(±10%) · Switching Freq.: 300Hz / 150Hz

IP67
Ingress Protection



①② ③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...60VDC(±10%)**	SWITCHING FREQ. **300Hz / 150Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M30*1.5mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Non-flush mounting
- Strong anti-interference ability
- Multiple connection options available

MODEL CODES

Output Type	①	②	③	④
N.O	**BIDS-M30-D13N15-S124** SKU 10104138	**BIDS-M30-D13N25-S124** SKU 10104305	**BIDS-M30-D13N15-S124-S** SKU 10104140	**BIDS-M30-D13N25-S124-S** SKU 10104307
N.C	**BIDS-M30-D23N15-S124** SKU 10104139	**BIDS-M30-D23N25-S124** SKU 10104306	**BIDS-M30-D23N15-S124-S** SKU 10104141	**BIDS-M30-D23N25-S124-S** SKU 10104308

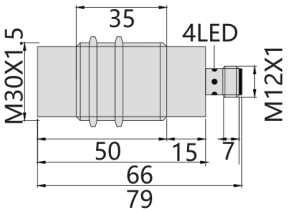
TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	①: 15mm(Non-Flush) ②: 25mm(Non-Flush) ③: 15mm(Non-Flush) ④: 25mm(Non-Flush)
Switching frequency	①: 300Hz ②: 150Hz ③: 300Hz ④: 150Hz
Operating voltage	10...60VDC(±10%)
Voltage drop	≤4.5V
Load current	200mA
Residual signal	≤0.5mA
Hysteresis	<15%(Sr)

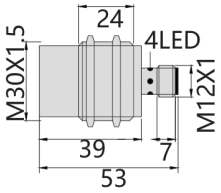
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

M30X79 Connector ①②



M30X53 Connector ③④

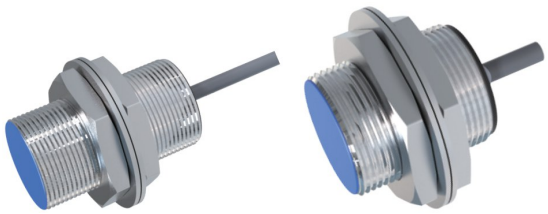


All dimensions in mm.

M30 Cylindrical Inductive Proximity Sensor

BIDS-M30-N31F10-N31F16-P31F10-P31F16-PC2-S series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 300Hz / 200Hz

IP67
Ingress Protection



①② ③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **300Hz / 200Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M30*1.5mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Flush mounting
- Strong anti-interference ability
- Multiple connection options available

MODEL CODES

Output Type	①	②	③	④
NPN N.O+N.C	**BIDS-M30-N31F10-PC2** SKU 10104019	**BIDS-M30-N31F16-PC2** SKU 10104249	**BIDS-M30-N31F10-PC2-S** SKU 10104021	**BIDS-M30-N31F16-PC2-S** SKU 10104251
PNP N.O+N.C	**BIDS-M30-P31F10-PC2** SKU 10104020	**BIDS-M30-P31F16-PC2** SKU 10104250	**BIDS-M30-P31F10-PC2-S** SKU 10104022	**BIDS-M30-P31F16-PC2-S** SKU 10104252

TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	①: 10mm(Flush) ②: 16mm(Flush) ③: 10mm(Flush) ④: 16mm(Flush)
Switching frequency	①: 300Hz ②: 200Hz ③: 300Hz ④: 200Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)

Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	2m PVC Cable, 4*0.25mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

M30 Cylindrical Inductive Proximity Sensor

BIDS-M30-N31F10-N31F16-P31F10-P31F16-S124-S series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 300Hz / 200Hz

IP67
Ingress Protection



①②



③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **300Hz / 200Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M30*1.5mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Flush mounting
- Strong anti-interference ability
- Multiple connection options available

MODEL CODES

Output Type	①	②	③	④
NPN N.O+N.C	BIDS-M30-N31F10-S124 SKU 10104023	BIDS-M30-N31F16-S124 SKU 10104253	BIDS-M30-N31F10-S124-S SKU 10104025	BIDS-M30-N31F16-S124-S SKU 10104255
PNP N.O+N.C	BIDS-M30-P31F10-S124 SKU 10104024	BIDS-M30-P31F16-S124 SKU 10104254	BIDS-M30-P31F10-S124-S SKU 10104026	BIDS-M30-P31F16-S124-S SKU 10104256

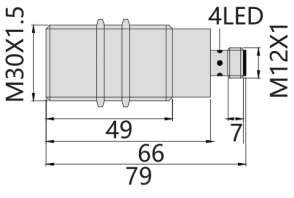
TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	①: 10mm(Flush) ②: 16mm(Flush) ③: 10mm(Flush) ④: 16mm(Flush)
Switching frequency	①: 300Hz ②: 200Hz ③: 300Hz ④: 200Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)

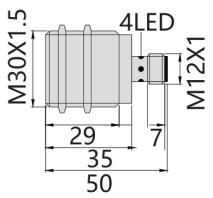
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

M30X79 Connector ①②



M30X48 Connector ③④

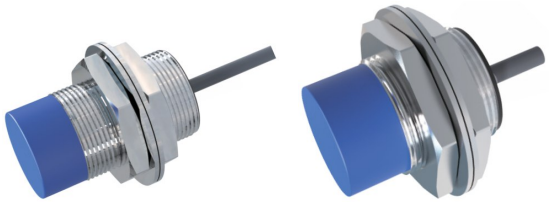


All dimensions in mm.

M30 Cylindrical Inductive Proximity Sensor

BIDS-M30-N31N15-N31N25-P31N15-P31N25-PC2-S series · Operating Voltage: 10...30VDC · Switching Freq.: 300Hz / 150Hz

IP67
Ingress Protection



①② ③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC**	SWITCHING FREQ. **300Hz / 150Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M30*1.5mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Non-flush mounting
- Strong anti-interference ability
- Multiple connection options available

MODEL CODES

Output Type	①	②	③	④
NPN N.O+N.C	**BIDS-M30-N31N15-PC2** SKU 10104142	**BIDS-M30-N31N25-PC2** SKU 10104309	**BIDS-M30-N31N15-PC2-S** SKU 10104144	**BIDS-M30-N31N25-PC2-S** SKU 10104311
PNP N.O+N.C	**BIDS-M30-P31N15-PC2** SKU 10104143	**BIDS-M30-P31N25-PC2** SKU 10104310	**BIDS-M30-P31N15-PC2-S** SKU 10104145	**BIDS-M30-P31N25-PC2-S** SKU 10104312

TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	①: 15mm(Non-Flush) ②: 25mm(Non-Flush) ③: 15mm(Non-Flush) ④: 25mm(Non-Flush)
Switching frequency	①: 300Hz ②: 150Hz ③: 300Hz ④: 150Hz
Operating voltage	10...30VDC
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
Ambient temperature	-25...70°C
Ingress protection	IP67

DIMENSIONAL DRAWINGS



All dimensions in mm.

M30 Cylindrical Inductive Proximity Sensor

BIDS-M30-N31N15-N31N25-P31N15-P31N25-S124-S series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 300Hz / 150Hz

IP67
Ingress Protection



①②



③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **300Hz / 150Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M30*1.5mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Non-flush mounting
- Strong anti-interference ability
- Multiple connection options available

MODEL CODES

Output Type	①	②	③	④
NPN N.O+N.C	**BIDS-M30-N31N15-S124** SKU 10104146	**BIDS-M30-N31N25-S124** SKU 10104313	**BIDS-M30-N31N15-S124-S** SKU 10104148	**BIDS-M30-N31N25-S124-S** SKU 10104315
PNP N.O+N.C	**BIDS-M30-P31N15-S124** SKU 10104147	**BIDS-M30-P31N25-S124** SKU 10104314	**BIDS-M30-P31N15-S124-S** SKU 10104149	**BIDS-M30-P31N25-S124-S** SKU 10104316

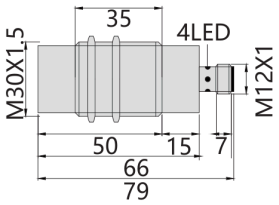
TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	①: 15mm(Non-Flush) ②: 25mm(Non-Flush) ③: 15mm(Non-Flush) ④: 25mm(Non-Flush)
Switching frequency	①: 300Hz ②: 150Hz ③: 300Hz ④: 150Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)

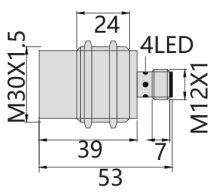
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

M30X79 Connector ①②



M30X53 Connector ③④



All dimensions in mm.

M30 Cylindrical Inductive Proximity Sensor

BIDT-M30-N11F10-S124 series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 300Hz

IP67
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **300Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M30*1.5mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Teflon-coated housing
- Proof to strong magnetic interference
- High resistance to interference and welding slags splashing

MODEL CODES

Output Type	①	②	③	④
NPN N.O	**BIDT-M30-N11F10-S124** SKU 10103987	**BIDT-M30-N11F10-S124-S** SKU 10103991	**BIDT-M18-N11N15-S124** SKU 10104217	**BIDT-M18-N11N15-S124-S** SKU 10104221
NPN N.C	**BIDT-M30-N21F10-S124** SKU 10103988	**BIDT-M30-N21F10-S124-S** SKU 10103992	**BIDT-M18-N21N15-S124** SKU 10104218	**BIDT-M18-N21N15-S124-S** SKU 10104222
PNP N.O	**BIDT-M30-P11F10-S124** SKU 10103989	**BIDT-M30-P11F10-S124-S** SKU 10103993	**BIDT-M18-P11N15-S124** SKU 10104219	**BIDT-M18-P11N15-S124-S** SKU 10104223
PNP N.C	**BIDT-M30-P21F10-S124** SKU 10103990	**BIDT-M30-P21F10-S124-S** SKU 10103994	**BIDT-M18-P21N15-S124** SKU 10104220	**BIDT-M18-P21N15-S124-S** SKU 10104224

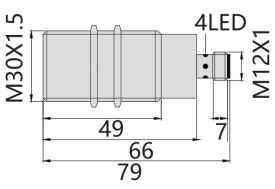
TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	①: 10mm(Flush) ②: 10mm(Flush) ③: 15mm(Non-Flush) ④: 15mm(Non-Flush)
Switching frequency	300Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)

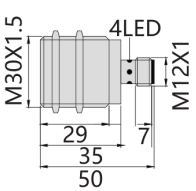
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, Teflon-plated
Sensing face material	PTFE
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

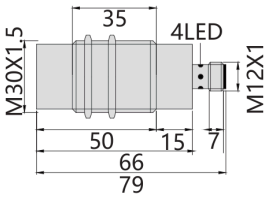
M30X79 Connector ①



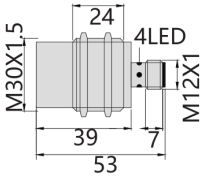
M30X48 Connector ②



M30X79 Connector ③



M30X53 Connector ④



All dimensions in mm.

M30 Cylindrical Inductive Proximity Sensor

BIDH-M30-F10-G2-120 series · Sensing Distance: 10mm(Flush) · Operating Voltage: 10...30VDC(±10%)

IP66
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **10mm(Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **300Hz**	AMBIENT TEMP. **-25...120°C**
HOUSING **M30*1.5mm**	INGRESS PROTECTION **IP66**

FEATURES

- High-precision stand-alone operation
- Built-in non-adjustable high precision amplifier
- Ambient temperature -25 ° C ~ 230 ° C

MODEL CODES

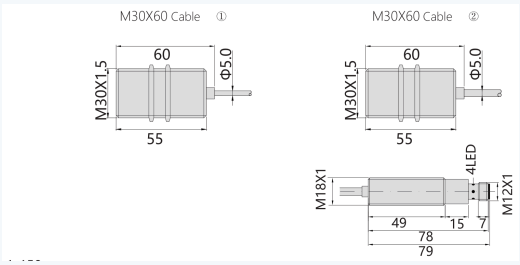
Output Type	Model Code
NPN N.O	**BIDH-M30-N11F10-G2-120** SKU 10104090
NPN N.C	**BIDH-M30-N21F10-G2-120** SKU 10104091
PNP N.O	**BIDH-M30-P11F10-G2-120** SKU 10104092
PNP N.C	**BIDH-M30-P21F10-G2-120** SKU 10104093

TECHNICAL DATA

Ambient temperature	-25...120°C
Exterior structure	M30*1.5mm
Sensing distance	10mm(Flush)
Switching frequency	300Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Amplifier	None
Load current	200mA/24V DC
No-load current	≤10mA(24V)
Hysteresis	<3...15%(Sr)

Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	None
Ingress protection	IP66
Housing material	Stainless steel
Sensing face material	PTFE
Connection	2m Silicone cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

M30 Cylindrical Inductive Proximity Sensor

BIDM-M30-F10-PC2-S-S124 series · Sensing Distance: 10mm(Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **10mm(Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **2Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **M30*1.5mm**	INGRESS PROTECTION **IP67**

FEATURES

- High protection level
- Collision proof
- Corrosion resistance

MODEL CODES

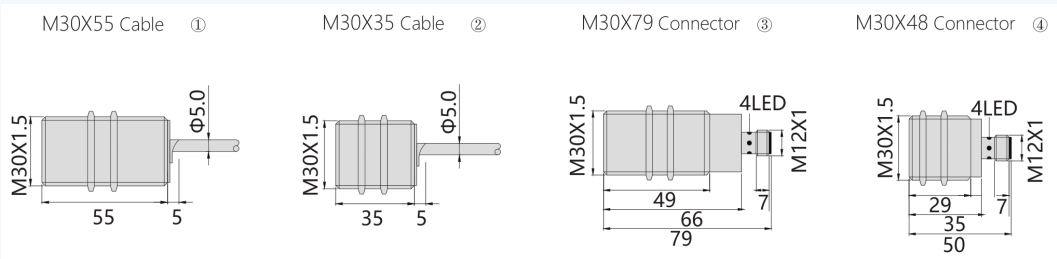
Output Type	①	②	③	④
NPN N.O	BIDM-M30-N11F10-PC2 SKU 10104046	BIDM-M30-N11F10-PC2-S SKU 10104050	BIDM-M30-N11F10-S124 SKU 10104054	BIDM-M30-N11F10-S124-S SKU 10104058
NPN N.C	BIDM-M30-N21F10-PC2 SKU 10104047	BIDM-M30-N21F10-PC2-S SKU 10104051	BIDM-M30-N21F10-S124 SKU 10104055	BIDM-M30-N21F10-S124-S SKU 10104059
PNP N.O	BIDM-M30-P11F10-PC2 SKU 10104048	BIDM-M30-P11F10-PC2-S SKU 10104052	BIDM-M30-P11F10-S124 SKU 10104056	BIDM-M30-P11F10-S124-S SKU 10104060
PNP N.C	BIDM-M30-P21F10-PC2 SKU 10104049	BIDM-M30-P21F10-PC2-S SKU 10104053	BIDM-M30-P21F10-S124 SKU 10104057	BIDM-M30-P21F10-S124-S SKU 10104061

TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	10mm(Flush)
Switching frequency	2Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)

Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Stainless steel
Sensing face material	Stainless steel
Connection	①: 2m PVC Cable, 3*0.35mm² ②: 2m PVC Cable, 3*0.35mm² ③: M12 Connector ④: M12 Connector
Accessories	①: None ②: None ③: M12 4 pin cable with connector ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

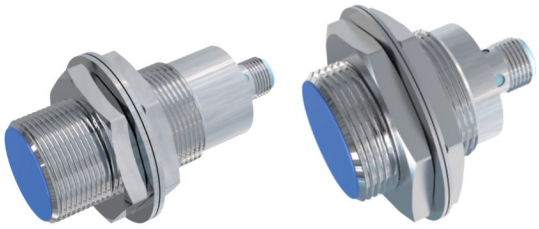


All dimensions in mm.

M30 Cylindrical Inductive Proximity Sensor

BIDW-M30-F10-S124-S series · Sensing Distance: 10mm(Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



① ②

KEY SPECIFICATIONS

SENSING DISTANCE **10mm(Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **300Hz**	AMBIENT TEMP. **-40...85°C**
HOUSING **M30*1.5mm**	INGRESS PROTECTION **IP67**

FEATURES

- Wide detection range
- High precision, strong anti-interference
- Temperature-40°C...85°C

MODEL CODES

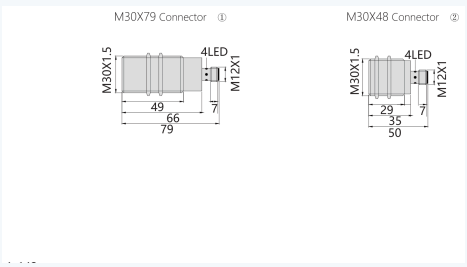
Output Type	①	②
NPN N.O	**BIDW-M30-N11F10-S124** SKU 10104082	**BIDW-M30-N11F10-S124-S** SKU 10104086
NPN N.C	**BIDW-M30-N21F10-S124** SKU 10104083	**BIDW-M30-N21F10-S124-S** SKU 10104087
PNP N.O	**BIDW-M30-P11F10-S124** SKU 10104084	**BIDW-M30-P11F10-S124-S** SKU 10104088
PNP N.C	**BIDW-M30-P21F10-S124** SKU 10104085	**BIDW-M30-P21F10-S124-S** SKU 10104089

TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	10mm(Flush)
Switching frequency	300Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)

Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-40...85°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

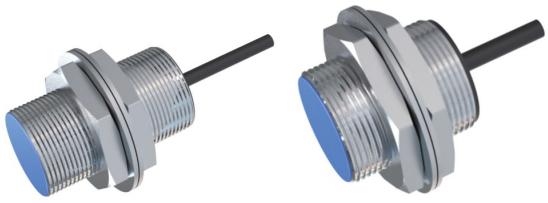


All dimensions in mm.

M30 Cylindrical Inductive Proximity Sensor

BIDW-M30-F10-UC2-S series · Sensing Distance: 10mm(Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



① ②

KEY SPECIFICATIONS

SENSING DISTANCE **10mm(Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **300Hz**	AMBIENT TEMP. **-40...85°C**
HOUSING **M30*1.5mm**	INGRESS PROTECTION **IP67**

FEATURES

- Low temperature resistance
- Suitable for cold storage, extremely cold environment
- Temperature-40°C...85°C

MODEL CODES

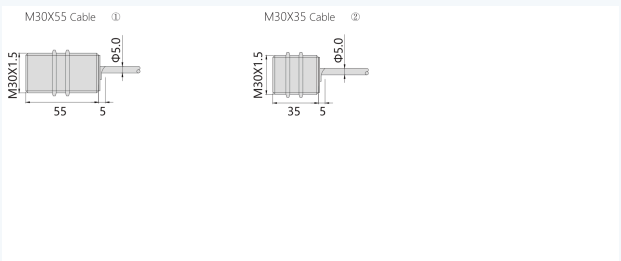
Output Type	①	②
NPN N.O	**BIDW-M30-N11F10-UC2** SKU 10104074	**BIDW-M30-N11F10-UC2-S** SKU 10104078
NPN N.C	**BIDW-M30-N21F10-UC2** SKU 10104075	**BIDW-M30-N21F10-UC2-S** SKU 10104079
PNP N.O	**BIDW-M30-P11F10-UC2** SKU 10104076	**BIDW-M30-P11F10-UC2-S** SKU 10104080
PNP N.C	**BIDW-M30-P21F10-UC2** SKU 10104077	**BIDW-M30-P21F10-UC2-S** SKU 10104081

TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	10mm(Flush)
Switching frequency	300Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)

Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-40...85°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	2m PUR Cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

M30 Cylindrical Inductive Proximity Sensor

BIDH-M30-N15-G2-120 series · Sensing Distance: 15mm(Non-Flush) · Operating Voltage: 10...30VDC(±10%)

IP66
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **15mm(Non-Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **100Hz**	AMBIENT TEMP. **-25...120°C**
HOUSING **M30*1.5mm**	INGRESS PROTECTION **IP66**

FEATURES

- High-precision stand-alone operation
- Built-in non-adjustable high precision amplifier
- Ambient temperature -25 ° C ~ 230 ° C

MODEL CODES

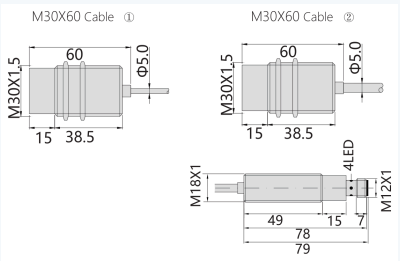
Output Type	Model Code
NPN N.O	**BIDH-M30-N11N15-G2-120** SKU 10104197
NPN N.C	**BIDH-M30-N21N15-G2-120** SKU 10104198
PNP N.O	**BIDH-M30-P11N15-G2-120** SKU 10104199
PNP N.C	**BIDH-M30-P21N15-G2-120** SKU 10104200

TECHNICAL DATA

Ambient temperature	-25...120°C
Exterior structure	M30*1.5mm
Sensing distance	15mm(Non-Flush)
Switching frequency	100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Amplifier	None
Load current	200mA/24V DC
No-load current	≤10mA(24V)
Hysteresis	<3...15%(Sr)

Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	None
Ingress protection	IP66
Housing material	Stainless steel
Sensing face material	PTFE
Connection	2m Silicone cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

M30 Cylindrical Inductive Proximity Sensor

BIDM-M30-N15-PC2-S-S124 series · Sensing Distance: 15mm(Non-Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **15mm(Non-Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **2Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **M30*1.5mm**	INGRESS PROTECTION **IP67**

FEATURES

- High protection level
- Collision proof
- Corrosion resistance

MODEL CODES

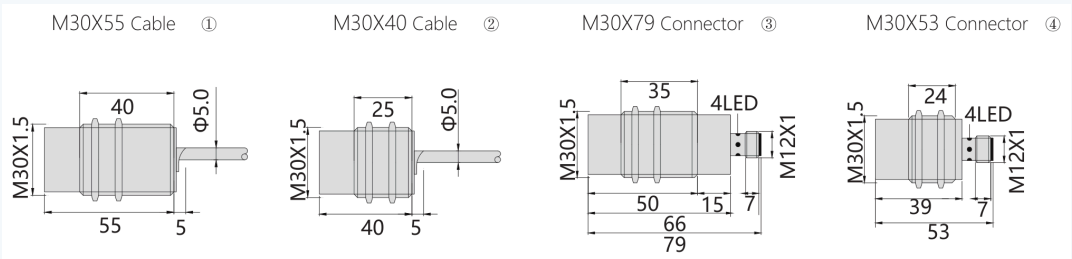
Output Type	①	②	③	④
NPN N.O	BIDM-M30-N11N15-PC2 SKU 10104201	BIDM-M30-N11N15-PC2-S SKU 10104205	BIDM-M30-N11N15-S124 SKU 10104209	BIDM-M30-N11N15-S124-S SKU 10104213
NPN N.C	BIDM-M30-N21N15-PC2 SKU 10104202	BIDM-M30-N21N15-PC2-S SKU 10104206	BIDM-M30-N21N15-S124 SKU 10104210	BIDM-M30-N21N15-S124-S SKU 10104214
PNP N.O	BIDM-M30-P11N15-PC2 SKU 10104203	BIDM-M30-P11N15-PC2-S SKU 10104207	BIDM-M30-P11N15-S124 SKU 10104211	BIDM-M30-P11N15-S124-S SKU 10104215
PNP N.C	BIDM-M30-P21N15-PC2 SKU 10104204	BIDM-M30-P21N15-PC2-S SKU 10104208	BIDM-M30-P21N15-S124 SKU 10104212	BIDM-M30-P21N15-S124-S SKU 10104216

TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	15mm(Non-Flush)
Switching frequency	2Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)

Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Stainless steel
Sensing face material	Stainless steel
Connection	①: 2m PVC Cable, 3*0.35mm² ②: 2m PVC Cable, 3*0.35mm² ③: M12 Connector ④: M12 Connector
Accessories	①: None ②: None ③: M12 4 pin cable with connector ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

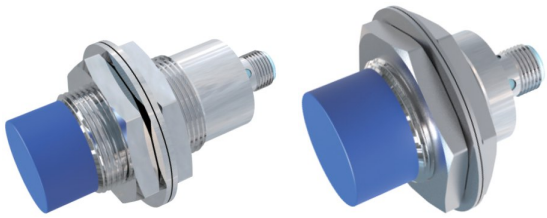


All dimensions in mm.

M30 Cylindrical Inductive Proximity Sensor

BIDW-M30-N15-S124-S series · Sensing Distance: 15mm(Non-Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



① ②

KEY SPECIFICATIONS

SENSING DISTANCE **15mm(Non-Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **300Hz**	AMBIENT TEMP. **-40...85°C**
HOUSING **M30*1.5mm**	INGRESS PROTECTION **IP67**

FEATURES

- Low temperature resistance
- Suitable for cold storage, extremely cold environment
- Temperature-40°C...85°C

MODEL CODES

Output Type	①	②
NPN N.O	**BIDW-M30-N11N15-S124** SKU 10104189	**BIDW-M30-N11N15-S124-S** SKU 10104193
NPN N.C	**BIDW-M30-N21N15-S124** SKU 10104190	**BIDW-M30-N21N15-S124-S** SKU 10104194
PNP N.O	**BIDW-M30-P11N15-S124** SKU 10104191	**BIDW-M30-P11N15-S124-S** SKU 10104195
PNP N.C	**BIDW-M30-P21N15-S124** SKU 10104192	**BIDW-M30-P21N15-S124-S** SKU 10104196

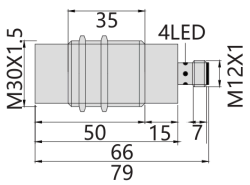
TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	15mm(Non-Flush)
Switching frequency	300Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)

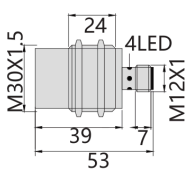
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-40...85°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

M30X79 Connector ①



M30X53 Connector ②

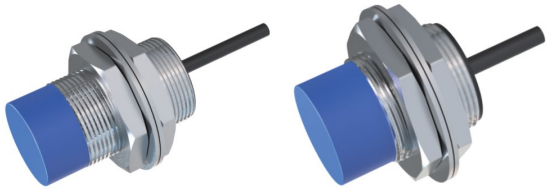


All dimensions in mm.

M30 Cylindrical Inductive Proximity Sensor

BIDW-M30-N15-UC2-S series · Sensing Distance: 15mm(Non-Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



① ②

KEY SPECIFICATIONS

SENSING DISTANCE **15mm(Non-Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **300Hz**	AMBIENT TEMP. **-40...85°C**
HOUSING **M30*1.5mm**	INGRESS PROTECTION **IP67**

FEATURES

- Low temperature resistance
- Suitable for cold storage, extremely cold environment
- Temperature-40°C...85°C

MODEL CODES

Output Type	①	②
NPN N.O	**BIDW-M30-N11N15-UC2** SKU 10104181	**BIDW-M30-N11N15-UC2-S** SKU 10104185
NPN N.C	**BIDW-M30-N21N15-UC2** SKU 10104182	**BIDW-M30-N21N15-UC2-S** SKU 10104186
PNP N.O	**BIDW-M30-P11N15-UC2** SKU 10104183	**BIDW-M30-P11N15-UC2-S** SKU 10104187
PNP N.C	**BIDW-M30-P21N15-UC2** SKU 10104184	**BIDW-M30-P21N15-UC2-S** SKU 10104188

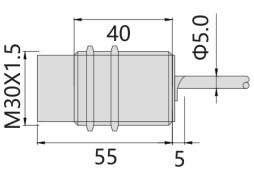
TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	15mm(Non-Flush)
Switching frequency	300Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)

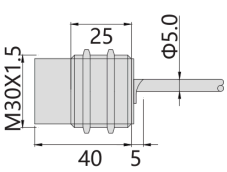
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-40...85°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PBT
Connection	2m PUR Cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS

M30X55 Cable ①



M30X40 Cable ②



All dimensions in mm.

M30 Cylindrical Inductive Proximity Sensor — Factor 1

BIDF-M30-F10-PC2-S124 series · Sensing Distance: 10mm(Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



① ②

KEY SPECIFICATIONS

SENSING DISTANCE **10mm(Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **750Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **M30*1.5mm**	INGRESS PROTECTION **IP67**

FEATURES

- Factor 1: equal sensing distance on all metals
- Detection of copper, iron, aluminum
- Application in the automotive industry

MODEL CODES

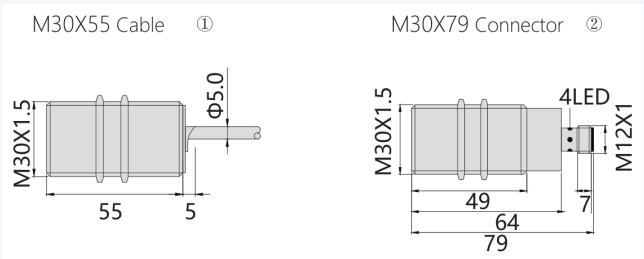
Output Type	①	②
NPN N.O	**BIDF-M30-N11F10-PC2** SKU 10104062	**BIDF-M30-N11F10-S124** SKU 10104066
NPN N.C	**BIDF-M30-N21F10-PC2** SKU 10104063	**BIDF-M30-N21F10-S124** SKU 10104067
PNP N.O	**BIDF-M30-P11F10-PC2** SKU 10104064	**BIDF-M30-P11F10-S124** SKU 10104068
PNP N.C	**BIDF-M30-P21F10-PC2** SKU 10104065	**BIDF-M30-P21F10-S124** SKU 10104069

TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	10mm(Flush)
Switching frequency	750Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	PPS
Connection	①: 2m PVC Cable, 3*0.35mm² ②: M12 Connector
Accessories	①: None ②: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

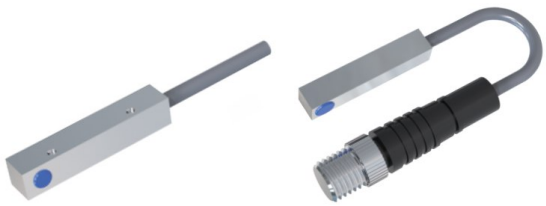


All dimensions in mm.

Q5 Rectangular Inductive Proximity Sensor

BIDS-R05-F0.8-F1.2-PC2-Z83 series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 2000Hz

IP67
Ingress Protection



①② ③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **2000Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **5*5*26mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Miniature proximity sensor
- IC circuit; Can be installed in narrow and confined spaces

MODEL CODES

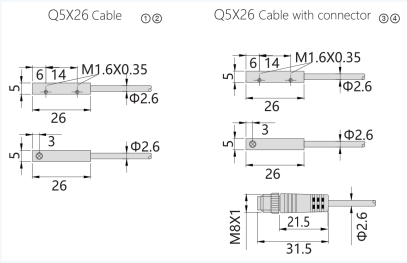
Output Type	①	②	③	④
NPN N.O	BIDS-R05-N11F0.8-PC2 SKU 10104346	BIDS-R05-N11F1.2-PC2 SKU 10104354	BIDS-R05-N11F0.8-Z83 SKU 10104350	BIDS-R05-N11F1.2-Z83 SKU 10104358
NPN N.C	BIDS-R05-N21F0.8-PC2 SKU 10104347	BIDS-R05-N21F1.2-PC2 SKU 10104355	BIDS-R05-N21F0.8-Z83 SKU 10104351	BIDS-R05-N21F1.2-Z83 SKU 10104359
PNP N.O	BIDS-R05-P11F0.8-PC2 SKU 10104348	BIDS-R05-P11F1.2-PC2 SKU 10104356	BIDS-R05-P11F0.8-Z83 SKU 10104352	BIDS-R05-P11F1.2-Z83 SKU 10104360
PNP N.C	BIDS-R05-P21F0.8-PC2 SKU 10104349	BIDS-R05-P21F1.2-PC2 SKU 10104357	BIDS-R05-P21F0.8-Z83 SKU 10104353	BIDS-R05-P21F1.2-Z83 SKU 10104361

TECHNICAL DATA

Size	5*5*26mm
Sensing distance	①: 0.8mm(Flush) ②: 1.2mm(Flush) ③: 0.8mm(Flush) ④: 1.2mm(Flush)
Switching frequency	2000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	100mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	POM
Connection	①: 2m PVC Cable, 3*0.15mm² ②: 2m PVC Cable, 3*0.15mm² ③: M8, 0.3m Cable with connector ④: M8, 0.3m Cable with connector
Accessories	①: None ②: None ③: M8 3 pin cable with connector ④: M8 3 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

Q8 Rectangular Inductive Proximity Sensor

BIDS-R08-N11F2.0-PC2 series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 2000Hz / 1000Hz

IP67
Ingress Protection



①②



③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **2000Hz / 1000Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **8*8*40mm / 8*8*30mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Flush mounting
- High response frequency
- Suitable for various applications

MODEL CODES

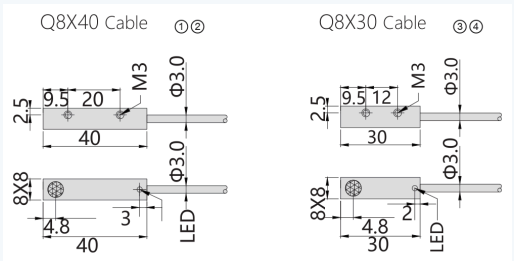
Output Type	①	②	③	④
NPN N.O	BIDS-R08-N11F2.0-PC2 SKU 10104362	BIDP-R08-N11F3.0-PC2 SKU 10104394	BIDS-R08-N11F2.0-PC2-S SKU 10104366	BIDP-R08-N11F3.0-PC2-S SKU 10104398
NPN N.C	BIDS-R08-N21F2.0-PC2 SKU 10104363	BIDP-R08-N21F3.0-PC2 SKU 10104395	BIDS-R08-N21F2.0-PC2-S SKU 10104367	BIDP-R08-N21F3.0-PC2-S SKU 10104399
PNP N.O	BIDS-R08-P11F2.0-PC2 SKU 10104364	BIDP-R08-P11F3.0-PC2 SKU 10104396	BIDS-R08-P11F2.0-PC2-S SKU 10104368	BIDP-R08-P11F3.0-PC2-S SKU 10104400
PNP N.C	BIDS-R08-P21F2.0-PC2 SKU 10104365	BIDP-R08-P21F3.0-PC2 SKU 10104397	BIDS-R08-P21F2.0-PC2-S SKU 10104369	BIDP-R08-P21F3.0-PC2-S SKU 10104401

TECHNICAL DATA

Size	①: 8*8*40mm ②: 8*8*40mm ③: 8*8*30mm ④: 8*8*30mm
Sensing distance	①: 2mm(Flush) ②: 3mm(Quasi-Flush) ③: 2mm(Flush) ④: 3mm(Quasi-Flush)
Switching frequency	①: 2000Hz ②: 1000Hz ③: 2000Hz ④: 1000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	100mA
Leakage current	≤0.01mA

No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	POM
Connection	2m PVC Cable, 3*0.18mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

Q8 Rectangular Inductive Proximity Sensor

BIDS-R08-N11F2.0-S83 series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 2000Hz / 1000Hz

IP67
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **2000Hz / 1000Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **8*8*60mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Flush mounting
- High response frequency
- Suitable for various applications

MODEL CODES

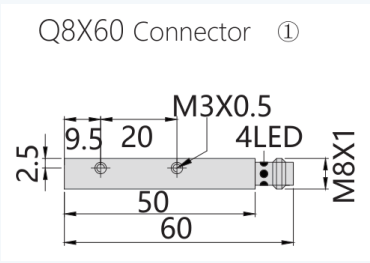
Output Type		
NPN N.O	**BIDS-R08-N11F2.0-S83** SKU 10104370	**BIDP-R08-N11F3.0-S83** SKU 10104390
NPN N.C	**BIDS-R08-N21F2.0-S83** SKU 10104371	**BIDP-R08-N21F3.0-S83** SKU 10104391
PNP N.O	**BIDS-R08-P11F2.0-S83** SKU 10104372	**BIDP-R08-P11F3.0-S83** SKU 10104392
PNP N.C	**BIDS-R08-P21F2.0-S83** SKU 10104373	**BIDP-R08-P21F3.0-S83** SKU 10104393

TECHNICAL DATA

Size	8*8*60mm
Sensing distance	①: 2mm(Flush) ②: 3mm(Quasi-Flush)
Switching frequency	①: 2000Hz ②: 1000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	100mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)

Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	POM
Connection	M8 Connector
Accessories	M8 3 pin cable with connector

DIMENSIONAL DRAWINGS

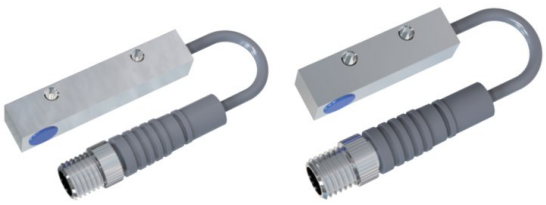


All dimensions in mm.

Q8 Rectangular Inductive Proximity Sensor

BIDS-R08-N11F2.0-Z83 series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 2000Hz / 1000Hz

IP67
Ingress Protection



①② ③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **2000Hz / 1000Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **8*8*40mm / 8*8*30mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Flush mounting
- High response frequency
- Suitable for various applications

MODEL CODES

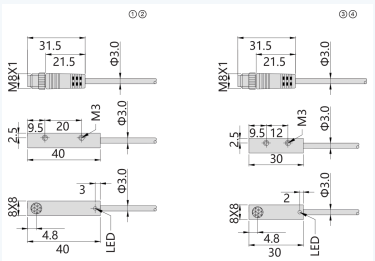
Output Type	①	②	③	④
NPN N.O	BIDS-R08-N11F2.0-Z83 SKU 10104374	BIDP-R08-N11F3.0-Z83 SKU 10104402	BIDS-R08-N11F2.0-Z83-S SKU 10104378	BIDP-R08-N11F3.0-Z83-S SKU 10104406
NPN N.C	BIDS-R08-N21F2.0-Z83 SKU 10104375	BIDP-R08-N21F3.0-Z83 SKU 10104403	BIDS-R08-N21F2.0-Z83-S SKU 10104379	BIDP-R08-N21F3.0-Z83-S SKU 10104407
PNP N.O	BIDS-R08-P11F2.0-Z83 SKU 10104376	BIDP-R08-P11F3.0-Z83 SKU 10104404	BIDS-R08-P11F2.0-Z83-S SKU 10104380	BIDP-R08-P11F3.0-Z83-S SKU 10104408
PNP N.C	BIDS-R08-P21F2.0-Z83 SKU 10104377	BIDP-R08-P21F3.0-Z83 SKU 10104405	BIDS-R08-P21F2.0-Z83-S SKU 10104381	BIDP-R08-P21F3.0-Z83-S SKU 10104409

TECHNICAL DATA

Size	①: 8*8*40mm ②: 8*8*40mm ③: 8*8*30mm ④: 8*8*30mm
Sensing distance	①: 2mm(Flush) ②: 3mm(Quasi-Flush) ③: 2mm(Flush) ④: 3mm(Quasi-Flush)
Switching frequency	①: 2000Hz ②: 1000Hz ③: 2000Hz ④: 1000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	<2.0V
Load current	200mA
Leakage current	≤0.01mA

No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	POM
Connection	M8, 0.3m Cable with connector
Accessories	M8 3 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

Q8 Rectangular Inductive Proximity Sensor

BIDP-R08-N2.5-PC2-T series · Sensing Distance: 2.5mm(Non-Flush) · Operating Voltage: 10...30VDC

IP67
Ingress Protection



①



②

KEY SPECIFICATIONS

SENSING DISTANCE **2.5mm(Non-Flush)**	OPERATING VOLTAGE **10...30VDC**
SWITCHING FREQ. **2000Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **8*7.4*20mm / 8*8*23mm**	INGRESS PROTECTION **IP67**

FEATURES

- Plastic housing
- Wide detection range
- Suitable for various applications

MODEL CODES

Output Type	8*7.4*20mm ①	8*8*23mm ②
NPN N.O	**BIDP-R08-N11N2.5-PC2** SKU 10104382	**BIDP-R08-N11N2.5-PC2-T** SKU 10104386
NPN N.C	**BIDP-R08-N21N2.5-PC2** SKU 10104383	**BIDP-R08-N21N2.5-PC2-T** SKU 10104387
PNP N.O	**BIDP-R08-P11N2.5-PC2** SKU 10104384	**BIDP-R08-P11N2.5-PC2-T** SKU 10104388
PNP N.C	**BIDP-R08-P21N2.5-PC2** SKU 10104385	**BIDP-R08-P21N2.5-PC2-T** SKU 10104389

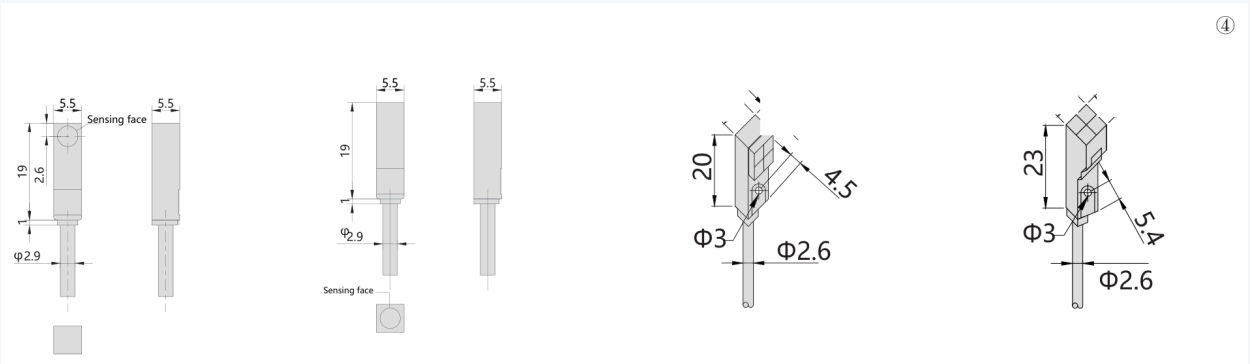
TECHNICAL DATA

Size	8*7.4*20mm 8*8*23mm
Sensing distance	2.5mm(Non-Flush)
Switching frequency	2000Hz
Operating voltage	10...30VDC
Ambient temperature	-25...70°C

Ingress protection	IP67
Housing material	PP
Sensing face material	PP
Connection	2m PVC Cable, 3*0.18mm²
Accessories	None

DIMENSIONAL DRAWINGS

④



All dimensions in mm.

Q10 / Q12 / Q15 Rectangular Inductive Proximity Sensor

BIDP-R10-F2.0-F4.0-N5.0-PC2 series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 1000Hz / 500Hz

IP67
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **1000Hz / 500Hz**
AMBIENT TEMP. **-25...70°C**	INGRESS PROTECTION **IP67**

FEATURES

- Plastic housing
- Wide detection range
- Suitable for various applications

MODEL CODES

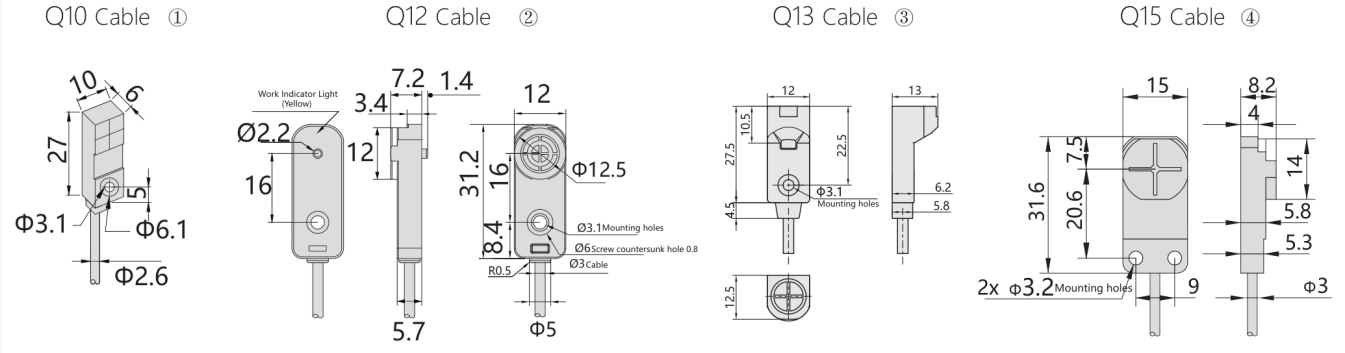
Output Type	①	②	③
NPN N.O	**BIDP-R10-N11F2.0-PC2** SKU 10104410	**BIDP-R12-N11F4.0-PC2** SKU 10104414	**BIDP-R15-N11N5.0-PC2** SKU 10104418
NPN N.C	**BIDP-R10-N21F2.0-PC2** SKU 10104411	**BIDP-R12-N21F4.0-PC2** SKU 10104415	**BIDP-R15-N21N5.0-PC2** SKU 10104419
PNP N.O	**BIDP-R10-P11F2.0-PC2** SKU 10104412	**BIDP-R12-P11F4.0-PC2** SKU 10104416	**BIDP-R15-P11N5.0-PC2** SKU 10104420
PNP N.C	**BIDP-R10-P21F2.0-PC2** SKU 10104413	**BIDP-R12-P21F4.0-PC2** SKU 10104417	**BIDP-R15-P21N5.0-PC2** SKU 10104421

TECHNICAL DATA

Size	①: 10*6*27mm ②: 12*7.2*31.2mm ③: 15*8.2*31.6mm
Sensing distance	①: 2mm(Flush) ②: 4mm(Flush) ③: 5mm(Non-Flush)
Switching frequency	①: 1000Hz ②: 1000Hz ③: 500Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V

Load current	①: 100mA ②: 200mA ③: 200mA
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	①: PP ②: ABS ③: ABS
Sensing face material	①: PP ②: ABS ③: ABS

DIMENSIONAL DRAWINGS

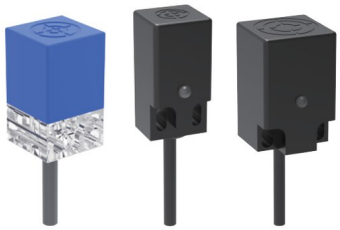


All dimensions in mm.

Q17 / Q18 / Q25 Rectangular Inductive Proximity Sensor

BIDP-R17-F5.0-N10-PC2 series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 500Hz / 1000Hz / 800Hz

IP67
Ingress Protection



① ② ③

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **500Hz / 1000Hz / 800Hz**
AMBIENT TEMP. **-25...70°C**	INGRESS PROTECTION **IP67**

FEATURES

- Plastic housing
- Wide detection range
- Suitable for various applications

MODEL CODES

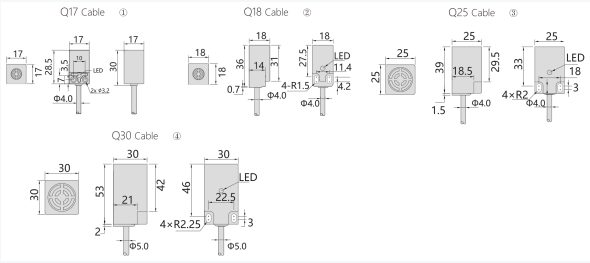
Output Type	①	②	③
NPN N.O	**BIDP-R17-N11F5.0-PC2** SKU 10104456	**BIDP-R18-N11F5.0-PC2** SKU 10104460	**BIDP-R25-N11N10-PC2** SKU 10104464
NPN N.C	**BIDP-R17-N21F5.0-PC2** SKU 10104457	**BIDP-R18-N21F5.0-PC2** SKU 10104461	**BIDP-R25-N21N10-PC2** SKU 10104465
PNP N.O	**BIDP-R17-P11F5.0-PC2** SKU 10104458	**BIDP-R18-P11F5.0-PC2** SKU 10104462	**BIDP-R25-P11N10-PC2** SKU 10104466
PNP N.C	**BIDP-R17-P21F5.0-PC2** SKU 10104459	**BIDP-R18-P21F5.0-PC2** SKU 10104463	**BIDP-R25-P21N10-PC2** SKU 10104467

TECHNICAL DATA

Size	①: 17*17*28.5mm ②: 18*18*36mm ③: 25*25*39mm
Sensing distance	①: 5mm(Flush) ②: 5mm(Flush) ③: 10mm(Non-Flush)
Switching frequency	①: 500Hz ②: 1000Hz ③: 800Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	①: Polarity reversal protection Power-on ②: Short-circuit protection, Polarity reversal protection, Power-on ③: Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	ABS
Sensing face material	ABS
Connection	①: 2m PVC Cable, 3*0.25mm² ②: 2m PVC Cable, 3*0.25mm² ③: 2m PVC Cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS

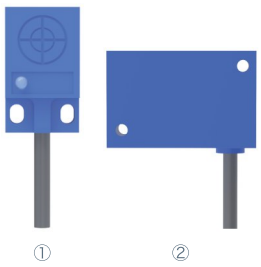


All dimensions in mm.

Q18 / Q25 Rectangular Inductive Proximity Sensor

BIDP-R18-F2.0-F4.0-PC2 series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 1000Hz

IP67
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **1000Hz**
AMBIENT TEMP. **-25...70°C**	INGRESS PROTECTION **IP67**

FEATURES

- Plastic housing
- Wide detection range
- Suitable for various applications

MODEL CODES

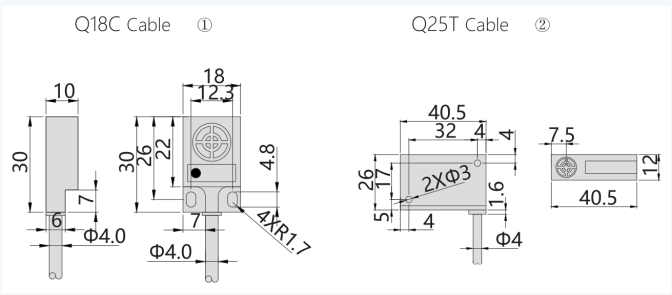
Output Type	①	②
NPN N.O	**BIDP-R18-N11F4.0-PC2** SKU 10104472	**BIDP-R25-N11F2.0-PC2** SKU 10104476
NPN N.C	**BIDP-R18-N21F4.0-PC2** SKU 10104473	**BIDP-R25-N21F2.0-PC2** SKU 10104477
PNP N.O	**BIDP-R18-P11F4.0-PC2** SKU 10104474	**BIDP-R25-P11F2.0-PC2** SKU 10104478
PNP N.C	**BIDP-R18-P21F4.0-PC2** SKU 10104475	**BIDP-R25-P21F2.0-PC2** SKU 10104479

TECHNICAL DATA

Size	①: 18*10*30mm ②: 40.5*12*26mm
Sensing distance	①: 4mm(Flush) ②: 2mm(Flush)
Switching frequency	1000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)

Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	ABS
Sensing face material	ABS
Connection	2m PVC Cable, 3*0.25mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

Q28 Rectangular Inductive Proximity Sensor

BIDP-R28-F2.0-F3.0-PC2-T series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 1000Hz

IP67
Ingress Protection



①② ③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **1000Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **15.8*10.3*27.8mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Plastic housing
- Wide detection range
- Suitable for various applications

MODEL CODES

Output Type	①	②	③	④
NPN N.O	BIDP-R28-N11F2.0-PC2-T SKU 10104428	BIDP-R28-N11F3.0-PC2-T SKU 10104432	BIDP-R28-N11F2.0-PC2 SKU 10104424	BIDP-R28-N11F3.0-PC2 SKU 10104436
NPN N.C	BIDP-R28-N21F2.0-PC2-T SKU 10104429	BIDP-R28-N21F3.0-PC2-T SKU 10104433	BIDP-R28-N21F2.0-PC2 SKU 10104425	BIDP-R28-N21F3.0-PC2 SKU 10104437
PNP N.O	BIDP-R28-P11F2.0-PC2-T SKU 10104430	BIDP-R28-P11F3.0-PC2-T SKU 10104434	BIDP-R28-P11F2.0-PC2 SKU 10104426	BIDP-R28-P11F3.0-PC2 SKU 10104438
PNP N.C	BIDP-R28-P21F2.0-PC2-T SKU 10104431	BIDP-R28-P21F3.0-PC2-T SKU 10104435	BIDP-R28-P21F2.0-PC2 SKU 10104427	BIDP-R28-P21F3.0-PC2 SKU 10104439

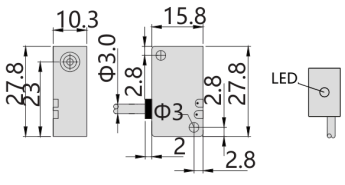
TECHNICAL DATA

Size	15.8*10.3*27.8mm
Sensing distance	①: 2mm(Flush) ②: 3mm(Quasi-Flush) ③: 2mm(Flush) ④: 3mm(Quasi-Flush)
Switching frequency	1000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	100mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)

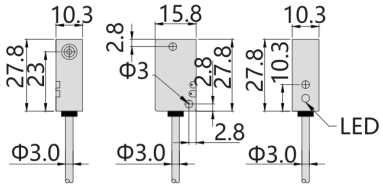
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	PBT
Sensing face material	PBT
Connection	2m PVC Cable, 3*0.18mm²
Accessories	None

DIMENSIONAL DRAWINGS

Q28 Side out cable ①②



Q28 Cable ③④



All dimensions in mm.

Q28 Rectangular Inductive Proximity Sensor

BIDP-R28-N4.0-N6.0-PC2-T series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 1000Hz / 500Hz

IP67
Ingress Protection



①② ③④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **1000Hz / 500Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **15.8*10.3*27.8mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Plastic housing
- Wide detection range
- Suitable for various applications

MODEL CODES

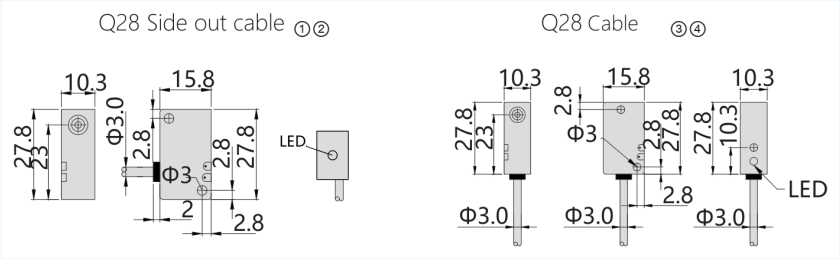
Output Type	①	②	③	④
NPN N.O	BIDP-R28-N11N4.0-PC2-T SKU 10104444	BIDP-R28-N11N6.0-PC2-T SKU 10104448	BIDP-R28-N11N4.0-PC2 SKU 10104440	BIDP-R28-N11N6.0-PC2 SKU 10104452
NPN N.C	BIDP-R28-N21N4.0-PC2-T SKU 10104445	BIDP-R28-N21N6.0-PC2-T SKU 10104449	BIDP-R28-N21N4.0-PC2 SKU 10104441	BIDP-R28-N21N6.0-PC2 SKU 10104453
PNP N.O	BIDP-R28-P11N4.0-PC2-T SKU 10104446	BIDP-R28-P11N6.0-PC2-T SKU 10104450	BIDP-R28-P11N4.0-PC2 SKU 10104442	BIDP-R28-P11N6.0-PC2 SKU 10104454
PNP N.C	BIDP-R28-P21N4.0-PC2-T SKU 10104447	BIDP-R28-P21N6.0-PC2-T SKU 10104451	BIDP-R28-P21N4.0-PC2 SKU 10104443	BIDP-R28-P21N6.0-PC2 SKU 10104455

TECHNICAL DATA

Size	15.8*10.3*27.8mm
Sensing distance	①: 4mm(Non-Flush) ②: 6mm(Non-Flush) ③: 4mm(Non-Flush) ④: 6mm(Non-Flush)
Switching frequency	①: 1000Hz ②: 500Hz ③: 1000Hz ④: 500Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	100mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)

Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	PBT
Sensing face material	PBT
Connection	2m PVC Cable, 3*0.18mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

Q28 Rectangular Inductive Proximity Sensor

BIDP-R28-F2.0-PC2-T series · Sensing Distance: 2mm(Flush) · Operating Voltage: 6...12VDC(±10%)

IP67
Ingress Protection



① ②

KEY SPECIFICATIONS

SENSING DISTANCE **2mm(Flush)**	OPERATING VOLTAGE **6...12VDC(±10%)**
SWITCHING FREQ. **2000Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **10.3*15.8*27.8mm**	INGRESS PROTECTION **IP67**

FEATURES

- NAMUR DC 2 wire
- Switching output

MODEL CODES

Output Type	①	②
NAMUR	**BIDP-R28-NA10F2.0-PC2** SKU 10104422	**BIDP-R28-NA10F2.0-PC2-T** SKU 10104423

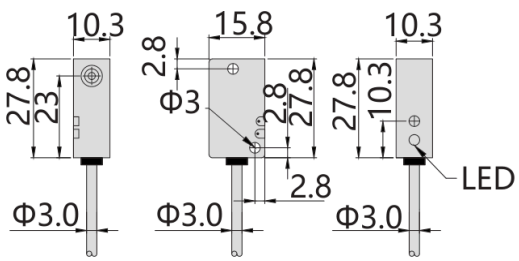
TECHNICAL DATA

Size	10.3*15.8*27.8mm
Sensing distance	2mm(Flush)
Switching frequency	2000Hz
Operating voltage	6...12VDC(±10%)
Load current	>2.2mA(OFF),<1.1mA(ON)
Hysteresis	<15%(Sr)
Repeatability	<2.0%(Sr)
Power-on delay	≤10ms
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

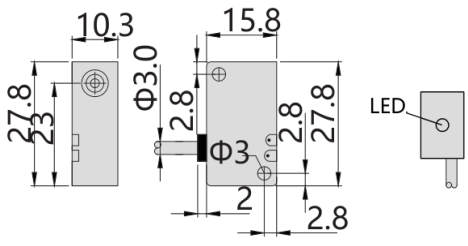
LED indicator	None
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	PBT
Sensing face material	PBT
Connection	2m PVC Cable, 2*0.25mm²
Accessories	None

DIMENSIONAL DRAWINGS

Q28 Cable ①



Q28 Side out cable ②



All dimensions in mm.

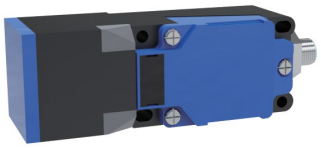
Q40 Rectangular Inductive Proximity Sensor

BIDP-R40-A14N20-A14N30-A24N20-A24N30-U15N20-U15N30-U25N20-U25N30-T-S124 series · Switching Freq.: 25Hz/25Hz AC; 40Hz DC · Ambient Temp.: -25...70°C

IP67
Ingress Protection



①②



③④

KEY SPECIFICATIONS

SWITCHING FREQ. **25Hz/25Hz AC; 40Hz DC**	AMBIENT TEMP. **-25...70°C**
HOUSING **40*40*115mm**	INGRESS PROTECTION **IP67**

FEATURES

- Multiple installation methods
- Wide detection range
- Can freely change the direction of detection

MODEL CODES

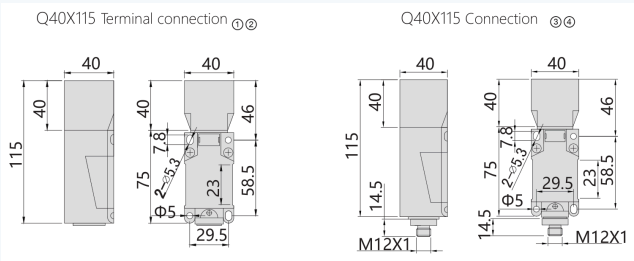
Output Type	①	②	③	④
AC type — 20...250V AC · 25Hz				
N.O	**BIDP-R40-A14N20-T** SKU 10104589	**BIDP-R40-A14N30-T** SKU 10104593	**BIDP-R40-A14N20-S124** SKU 10104597	**BIDP-R40-A14N30-S124** SKU 10104601
N.C	**BIDP-R40-A24N20-T** SKU 10104590	**BIDP-R40-A24N30-T** SKU 10104594	**BIDP-R40-A24N20-S124** SKU 10104598	**BIDP-R40-A24N30-S124** SKU 10104602
AC/DC type — 20...250V AC/DC · 25Hz AC; 40Hz DC				
N.O	**BIDP-R40-U15N20-T** SKU 10104591	**BIDP-R40-U15N30-T** SKU 10104595	**BIDP-R40-U15N20-S124** SKU 10104599	**BIDP-R40-U15N30-S124** SKU 10104603
N.C	**BIDP-R40-U25N20-T** SKU 10104592	**BIDP-R40-U25N30-T** SKU 10104596	**BIDP-R40-U25N20-S124** SKU 10104600	**BIDP-R40-U25N30-S124** SKU 10104604

TECHNICAL DATA

Size	40*40*115mm
Sensing distance	①: 20mm(Non-Flush) ②: 30mm(Non-Flush) ③: 20mm(Non-Flush) ④: 30mm(Non-Flush)
Switching frequency	AC: 25Hz · AC/DC: 25Hz AC; 40Hz DC
Operating voltage	AC: 20...250V AC · AC/DC: 20...250V AC/DC
Voltage drop	≤8V AC/≤10V AC,8V DC
Load current	Max.load: 400mA; min.Load: 5mA
Residual signal	≤1.8mA/≤2.5mA
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)

Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	PBT
Sensing face material	PBT
Connection	①: Terminal connection, 2.5mm² ②: Terminal connection, 2.5mm² ③: M12 Connector ④: M12 Connector
Accessories	①: None ②: None ③: M12 4 pin cable with connector ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

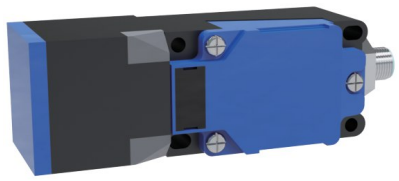


All dimensions in mm.

Q40 Rectangular Inductive Proximity Sensor

BIDP-R40-F15-F20-F30-N20-N30-N40-S124 series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 300Hz / 100Hz

IP67
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **300Hz / 100Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **40*40*115mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Multiple installation methods
- Wide detection range
- Can freely change the direction of detection

MODEL CODES

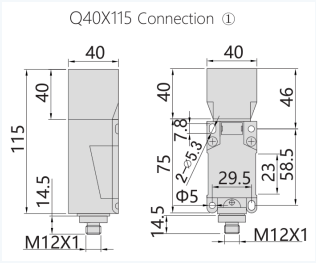
Output Type						
NPN N.O	BIDP-R40-N11F15-S124 SKU 10104509	BIDP-R40-N11F20-S124 SKU 10104513	BIDP-R40-N11F30-S124 SKU 10104517	BIDP-R40-N11N20-S124 SKU 10104521	BIDP-R40-N11N30-S124 SKU 10104537	BIDP-R40-N11N40-S124 SKU 10104541
NPN N.C	BIDP-R40-N21F15-S124 SKU 10104510	BIDP-R40-N21F20-S124 SKU 10104514	BIDP-R40-N21F30-S124 SKU 10104518	BIDP-R40-N21N20-S124 SKU 10104522	BIDP-R40-N21N30-S124 SKU 10104538	BIDP-R40-N21N40-S124 SKU 10104542
PNP N.O	BIDP-R40-P11F15-S124 SKU 10104511	BIDP-R40-P11F20-S124 SKU 10104515	BIDP-R40-P11F30-S124 SKU 10104519	BIDP-R40-P11N20-S124 SKU 10104523	BIDP-R40-P11N30-S124 SKU 10104539	BIDP-R40-P11N40-S124 SKU 10104543
PNP N.C	BIDP-R40-P21F15-S124 SKU 10104512	BIDP-R40-P21F20-S124 SKU 10104516	BIDP-R40-P21F30-S124 SKU 10104520	BIDP-R40-P21N20-S124 SKU 10104524	BIDP-R40-P21N30-S124 SKU 10104540	BIDP-R40-P21N40-S124 SKU 10104544

TECHNICAL DATA

Size	40*40*115mm
Sensing distance	①: 15mm(Flush) ②: 20mm(Flush) ③: 30mm(Quasi-Flush) ④: 20mm(Non-Flush) ⑤: 30mm(Non-Flush) ⑥: 40mm(Non-Flush)
Switching frequency	①: 300Hz ②: 300Hz ③: 100Hz ④: 300Hz ⑤: 300Hz ⑥: 100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA

No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	PBT
Sensing face material	PBT
Connection	Terminal connection, 2.5mm²/M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

Q40 Rectangular Inductive Proximity Sensor

BIDP-R40-F15-F20-F30-N20-N30-N40-T series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 300Hz / 100Hz

IP67
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **300Hz / 100Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **40*40*115mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Multiple installation methods
- Wide detection range
- Can freely change the direction of detection

MODEL CODES

Output Type						
NPN N.O	BIDP-R40-N11F15-T SKU 10104484	BIDP-R40-N11F20-T SKU 10104488	BIDP-R40-N11F30-T SKU 10104493	BIDP-R40-N11N20-T SKU 10104497	BIDP-R40-N11N30-T SKU 10104501	BIDP-R40-N11N40-T SKU 10104505
NPN N.C	BIDP-R40-N21F15-T SKU 10104485	BIDP-R40-N21F20-T SKU 10104489	BIDP-R40-N21F30-T SKU 10104494	BIDP-R40-N21N20-T SKU 10104498	BIDP-R40-N21N30-T SKU 10104502	BIDP-R40-N21N40-T SKU 10104506
PNP N.O	BIDP-R40-P11F15-T SKU 10104486	BIDP-R40-P11F20-T SKU 10104490	BIDP-R40-P11F30-T SKU 10104495	BIDP-R40-P11N20-T SKU 10104499	BIDP-R40-P11N30-T SKU 10104503	BIDP-R40-P11N40-T SKU 10104507
PNP N.C	BIDP-R40-P21F15-T SKU 10104487	BIDP-R40-P21F20-T SKU 10104491	BIDP-R40-P21F30-T SKU 10104496	BIDP-R40-P21N20-T SKU 10104500	BIDP-R40-P21N30-T SKU 10104504	BIDP-R40-P21N40-T SKU 10104508

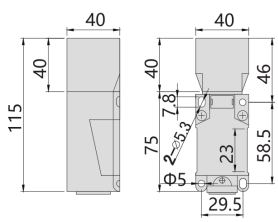
TECHNICAL DATA

Size	40*40*115mm
Sensing distance	①: 15mm(Flush) ②: 20mm(Flush) ③: 30mm(Quasi-Flush) ④: 20mm(Non-Flush) ⑤: 30mm(Non-Flush) ⑥: 40mm(Non-Flush)
Switching frequency	①: 300Hz ②: 300Hz ③: 100Hz ④: 300Hz ⑤: 300Hz ⑥: 100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA

No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	PBT
Sensing face material	PBT
Connection	Terminal connection, 2.5mm²
Accessories	None

DIMENSIONAL DRAWINGS

Q40X115 Terminal connection ①



All dimensions in mm.

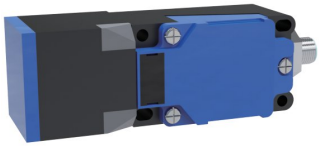
Q40 Rectangular Inductive Proximity Sensor

BIDP-R40-F15-N20-N30-T-S124 series · Operating Voltage: 10...60VDC(±10%) · Switching Freq.: 150Hz / 100Hz

IP67
Ingress Protection



①②③



④⑤⑥

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...60VDC(±10%)**	SWITCHING FREQ. **150Hz / 100Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **40*40*115mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Multiple installation methods
- Wide detection range
- Can freely change the direction of detection

MODEL CODES

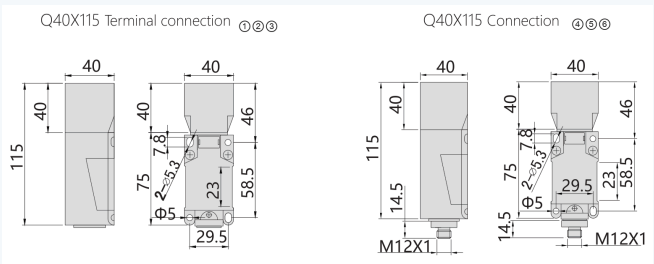
Output Type	①	②	③	④	⑤	⑥
N.O	**BIDP-R40-D13F15-T** SKU 10104553	**BIDP-R40-D13N20-T** SKU 10104555	**BIDP-R40-D13N30-T** SKU 10104557	**BIDP-R40-D13F15-S124** SKU 10104559	**BIDP-R40-D13N20-S124** SKU 10104561	**BIDP-R40-D13N30-S124** SKU 10104563
N.C	**BIDP-R40-D23F15-T** SKU 10104554	**BIDP-R40-D23N20-T** SKU 10104556	**BIDP-R40-D23N30-T** SKU 10104558	**BIDP-R40-D23F15-S124** SKU 10104560	**BIDP-R40-D23N20-S124** SKU 10104562	**BIDP-R40-D23N30-S124** SKU 10104564

TECHNICAL DATA

Size	40*40*115mm
Sensing distance	①: 15mm(Flush) ②: 20mm(Non-Flush) ③: 30mm(Non-Flush) ④: 15mm(Flush) ⑤: 20mm(Non-Flush) ⑥: 30mm(Non-Flush)
Switching frequency	①: 150Hz ②: 100Hz ③: 100Hz ④: 150Hz ⑤: 100Hz ⑥: 100Hz
Operating voltage	10...60VDC(±10%)
Voltage drop	≤4.5V
Load current	200mA
Residual signal	≤0.5mA
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	PBT
Sensing face material	PBT
Connection	①: Terminal connection, 2.5mm² ②: Terminal connection, 2.5mm² ③: Terminal connection, 2.5mm² ④: M12 Connector ⑤: M12 Connector ⑥: M12 Connector
Accessories	①: None ②: None ③: None ④: M12 4 pin cable with connector ⑤: M12 4 pin cable with connector ⑥: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

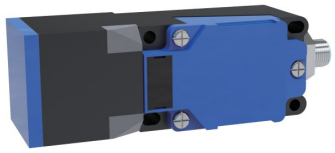
Q40 Rectangular Inductive Proximity Sensor

BIDP-R40-N31F15-N31N20-N31N30-P31F15-P31N20-P31N30-T-S124 series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 150Hz / 100Hz

IP67
Ingress Protection



①②③



④⑤⑥

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **150Hz / 100Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **40*40*115mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Multiple installation methods
- Wide detection range
- Can freely change the direction of detection

MODEL CODES

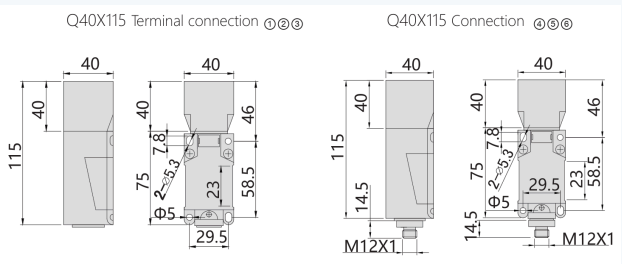
Output Type	①	②	③	④	⑤	⑥
NPN N.O+N.C	BIDP-R40-N31F15-T SKU 10104571	BIDP-R40-N31N20-T SKU 10104573	BIDP-R40-N31N30-T SKU 10104575	BIDP-R40-N31F15-S124 SKU 10104577	BIDP-R40-N31N20-S124 SKU 10104579	BIDP-R40-N31N30-S124 SKU 10104581
PNP N.O+N.C	BIDP-R40-P31F15-T SKU 10104572	BIDP-R40-P31N20-T SKU 10104574	BIDP-R40-P31N30-T SKU 10104576	BIDP-R40-P31F15-S124 SKU 10104578	BIDP-R40-P31N20-S124 SKU 10104580	BIDP-R40-P31N30-S124 SKU 10104582

TECHNICAL DATA

Size	40*40*115mm
Sensing distance	①: 15mm(Flush) ②: 20mm(Non-Flush) ③: 30mm(Non-Flush) ④: 15mm(Flush) ⑤: 20mm(Non-Flush) ⑥: 30mm(Non-Flush)
Switching frequency	①: 150Hz ②: 100Hz ③: 100Hz ④: 150Hz ⑤: 100Hz ⑥: 100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	PBT
Sensing face material	PBT
Connection	①: Terminal connection, 2.5mm² ②: Terminal connection, 2.5mm² ③: Terminal connection, 2.5mm² ④: M12 Connector ⑤: M12 Connector ⑥: M12 Connector
Accessories	①: None ②: None ③: None ④: M12 4 pin cable with connector ⑤: M12 4 pin cable with connector ⑥: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

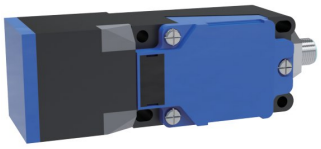
Q40 Rectangular Inductive Proximity Sensor

BIDP-R40-A14F15-A24F15-U15F15-U25F15-T-S124 series · Sensing Distance: 15mm(Flush) · Switching Freq.: 25Hz/25Hz AC; 40Hz DC

IP67
Ingress Protection



①



②

KEY SPECIFICATIONS

SENSING DISTANCE **15mm(Flush)**	SWITCHING FREQ. **25Hz/25Hz AC; 40Hz DC**
AMBIENT TEMP. **-25...70°C**	HOUSING **40*40*115mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Multiple installation methods
- Wide detection range
- Can freely change the direction of detection

MODEL CODES

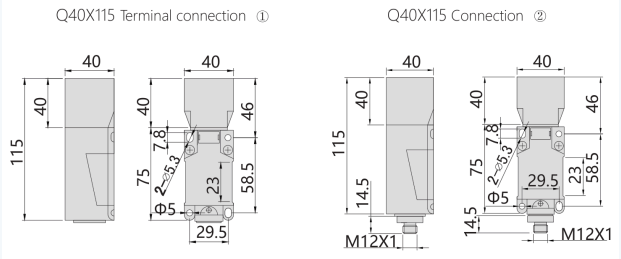
Output Type	①	②
AC type — 20...250V AC · 25Hz		
N.O	**BIDP-R40-A14F15-T** SKU 10104605	**BIDP-R40-A14F15-S124** SKU 10104609
N.C	**BIDP-R40-A24F15-T** SKU 10104606	**BIDP-R40-A24F15-S124** SKU 10104610
AC/DC type — 20...250V AC/DC · 25Hz AC; 40Hz DC		
N.O	**BIDP-R40-U15F15-T** SKU 10104607	**BIDP-R40-U15F15-S124** SKU 10104611
N.C	**BIDP-R40-U25F15-T** SKU 10104608	**BIDP-R40-U25F15-S124** SKU 10104612

TECHNICAL DATA

Size	40*40*115mm
Sensing distance	15mm(Flush)
Switching frequency	AC: 25Hz · AC/DC: 25Hz AC; 40Hz DC
Operating voltage	AC: 20...250V AC · AC/DC: 20...250V AC/DC
Voltage drop	≤8V AC/≤10V AC,8V DC
Load current	Max.load: 400mA; min.Load: 5mA
Residual signal	≤1.8mA/≤2.5mA
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Polarity reversal protection, Power-on

LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	PBT
Sensing face material	PBT
Connection	①: Terminal connection, 2.5mm² ②: M12 Connector
Accessories	①: None ②: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

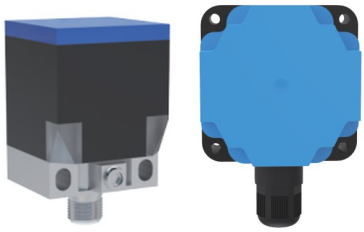


All dimensions in mm.

Q40S / Q80 Rectangular Inductive Proximity Sensor

BIDP-R40-A14F15-S124-S series · Switching Freq.: 25Hz/25Hz AC; 40Hz DC · Ambient Temp.: -25...70°C

IP67
Ingress Protection



①②③ ④

KEY SPECIFICATIONS

SWITCHING FREQ. 25Hz/25Hz AC; 40Hz DC	AMBIENT TEMP. -25...70°C
INGRESS PROTECTION IP67	VOLTAGE DROP ≤8V AC/≤10V AC,8V DC

FEATURES

- Multiple installation methods
- Wide detection range
- Can freely change the direction of detection

MODEL CODES

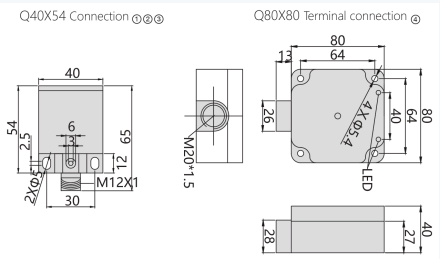
Output Type	①	②	③	④
AC type — 20...250V AC · 25Hz				
N.O	BIDP-R40-A14F15-S124-S SKU 10104613	BIDP-R40-A14N20-S124-S SKU 10104617	BIDP-R40-A14N30-S124-S SKU 10104621	BIDP-R80-A14N50-T SKU 10104635
N.C	BIDP-R40-A24F15-S124-S SKU 10104614	BIDP-R40-A24N20-S124-S SKU 10104618	BIDP-R40-A24N30-S124-S SKU 10104622	BIDP-R80-A24N50-T SKU 10104636
AC/DC type — 20...250V AC/DC · 25Hz AC; 40Hz DC				
N.O	BIDP-R40-U15F15-S124-S SKU 10104615	BIDP-R40-U15N20-S124-S SKU 10104619	BIDP-R40-U15N30-S124-S SKU 10104623	BIDP-R80-U15N50-T SKU 10104637
N.C	BIDP-R40-U25F15-S124-S SKU 10104616	BIDP-R40-U25N20-S124-S SKU 10104620	BIDP-R40-U25N30-S124-S SKU 10104624	BIDP-R80-U25N50-T SKU 10104638

TECHNICAL DATA

Size	①: 40*40*54mm ②: 40*40*54mm ③: 40*40*54mm ④: 80*80*40mm
Sensing distance	①: 15mm(Flush) ②: 20mm(Non-Flush) ③: 30mm(Non-Flush) ④: 50mm(Non-Flush)
Switching frequency	AC: 25Hz · AC/DC: 25Hz AC; 40Hz DC
Operating voltage	AC: 20...250V AC · AC/DC: 20...250V AC/DC
Voltage drop	≤8V AC/≤10V AC,8V DC
Load current	Max.load: 400mA; min.Load: 5mA Max.load: 200mA; min.Load: 5mA
Residual signal	≤1.8mA/≤2.5mA
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	PBT
Sensing face material	PBT
Connection	①: M12 Connector ②: M12 Connector ③: M12 Connector ④: Terminal connection, 2.5mm²
Accessories	①: M12 4 pin cable with connector ②: M12 4 pin cable with connector ③: M12 4 pin cable with connector ④: None

DIMENSIONAL DRAWINGS

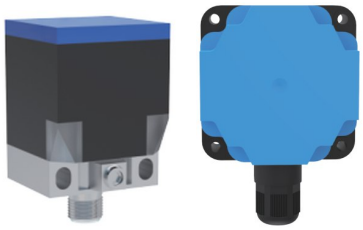


All dimensions in mm.

Q40S / Q80 Rectangular Inductive Proximity Sensor

BIDP-R40-D13F15-S124-S series · Operating Voltage: 10...60VDC(±10%) · Switching Freq.: 150Hz / 100Hz

IP67
Ingress Protection



①②③ ④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...60VDC(±10%)**	SWITCHING FREQ. **150Hz / 100Hz**
AMBIENT TEMP. **-25...70°C**	INGRESS PROTECTION **IP67**

FEATURES

- Multiple installation methods
- Wide detection range
- Can freely change the direction of detection

MODEL CODES

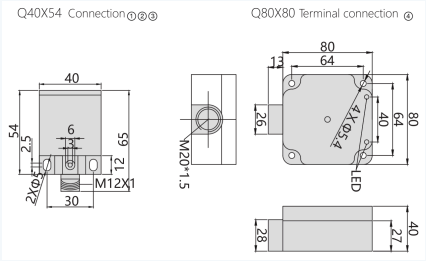
Output Type	①	②	③	④
N.O	**BIDP-R40-D13F15-S124-S** SKU 10104565	**BIDP-R40-D13N20-S124-S** SKU 10104567	**BIDP-R40-D13N30-S124-S** SKU 10104569	**BIDP-R80-D13N50-T** SKU 10104629
N.C	**BIDP-R40-D23F15-S124-S** SKU 10104566	**BIDP-R40-D23N20-S124-S** SKU 10104568	**BIDP-R40-D23N30-S124-S** SKU 10104570	**BIDP-R80-D23N50-T** SKU 10104630

TECHNICAL DATA

Size	①: 40*40*54mm ②: 40*40*54mm ③: 40*40*54mm ④: 80*80*40mm
Sensing distance	①: 15mm(Flush) ②: 20mm(Non-Flush) ③: 30mm(Non-Flush) ④: 50mm(Non-Flush)
Switching frequency	①: 150Hz ②: 100Hz ③: 100Hz ④: 100Hz
Operating voltage	10...60VDC(±10%)
Voltage drop	≤4.5V
Load current	200mA
Residual signal	≤0.5mA
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	PBT
Sensing face material	PBT
Connection	①: M12 Connector ②: M12 Connector ③: M12 Connector ④: Terminal connection, 2.5mm²
Accessories	①: M12 4 pin cable with connector ②: M12 4 pin cable with connector ③: M12 4 pin cable with connector ④: None

DIMENSIONAL DRAWINGS

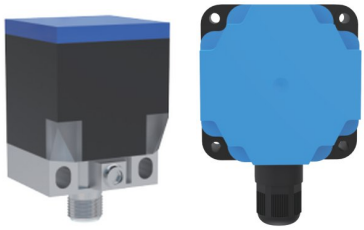


All dimensions in mm.

Q40S / Q80 Rectangular Inductive Proximity Sensor

BIDP-R40-N11F20-S124-S series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 300Hz / 100Hz

IP67
Ingress Protection



①② ③

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **300Hz / 100Hz**
AMBIENT TEMP. **-25...70°C**	INGRESS PROTECTION **IP67**

FEATURES

- Multiple installation methods
- Wide detection range
- Can freely change the direction of detection

MODEL CODES

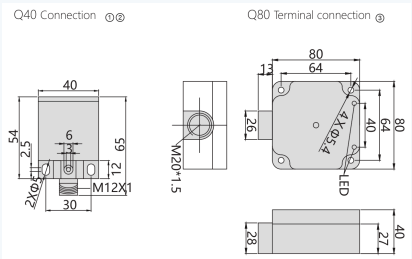
Output Type	①	②	③
NPN N.O	**BIDP-R40-N11F20-S124-S** SKU 10104545	**BIDP-R40-N11N40-S124-S** SKU 10104549	**BIDP-R80-N11N50-T** SKU 10104625
NPN N.C	**BIDP-R40-N21F20-S124-S** SKU 10104546	**BIDP-R40-N21N40-S124-S** SKU 10104550	**BIDP-R80-N21N50-T** SKU 10104626
PNP N.O	**BIDP-R40-P11F20-S124-S** SKU 10104547	**BIDP-R40-P11N40-S124-S** SKU 10104551	**BIDP-R80-P11N50-T** SKU 10104627
PNP N.C	**BIDP-R40-P21F20-S124-S** SKU 10104548	**BIDP-R40-P21N40-S124-S** SKU 10104552	**BIDP-R80-P21N50-T** SKU 10104628

TECHNICAL DATA

Size	①: 40*40*54mm ②: 40*40*54mm ③: 80*80*40mm
Sensing distance	①: 20mm(Flush) ②: 40mm(Non-Flush) ③: 50mm(Non-Flush)
Switching frequency	①: 300Hz ②: 100Hz ③: 100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	PBT
Sensing face material	PBT
Connection	①: M12 Connector ②: M12 Connector ③: Terminal connection, 2.5mm²
Accessories	①: M12 4 pin cable with connector ②: M12 4 pin cable with connector ③: None

DIMENSIONAL DRAWINGS

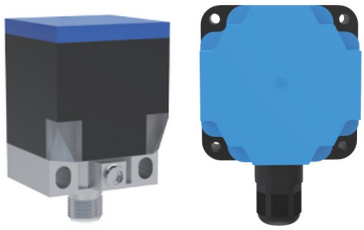


All dimensions in mm.

Q40S / Q80 Rectangular Inductive Proximity Sensor

BIDP-R40-N31F15-S124-S series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 150Hz / 100Hz

IP67
Ingress Protection



①②③ ④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **150Hz / 100Hz**
AMBIENT TEMP. **-25...70°C**	INGRESS PROTECTION **IP67**

FEATURES

- Multiple installation methods
- Wide detection range
- Can freely change the direction of detection

MODEL CODES

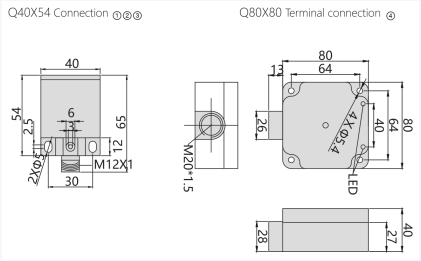
Output Type	①	②	③	④
NPN N.O+N.C	**BIDP-R40-N31F15-S124-S** SKU 10104583	**BIDP-R40-N31N20-S124-S** SKU 10104585	**BIDP-R40-N31N30-S124-S** SKU 10104587	**BIDP-R80-N31N50-T** SKU 10104631
PNP N.O+N.C	**BIDP-R40-P31F15-S124-S** SKU 10104584	**BIDP-R40-P31N20-S124-S** SKU 10104586	**BIDP-R40-P31N30-S124-S** SKU 10104588	**BIDP-R80-P31N50-T** SKU 10104632

TECHNICAL DATA

Size	①: 40*40*54mm ②: 40*40*54mm ③: 40*40*54mm ④: 80*80*40mm
Sensing distance	①: 15mm(Flush) ②: 20(Non-Flush) ③: 30mm(Non-Flush) ④: 50mm(Non-Flush)
Switching frequency	①: 150Hz ②: 100Hz ③: 100Hz ④: 100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0V
Load current	200mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	PBT
Sensing face material	PBT
Connection	①: M12 Connector ②: M12 Connector ③: M12 Connector ④: Terminal connection, 2.5mm²
Accessories	①: M12 4 pin cable with connector ②: M12 4 pin cable with connector ③: M12 4 pin cable with connector ④: None

DIMENSIONAL DRAWINGS

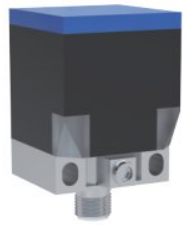


All dimensions in mm.

Q40S Rectangular Inductive Proximity Sensor

BIAS-R40-M2N25-S124-S series · Sensing Distance: 5...25mm(Non-Flush) · Operating Voltage: 18...30V DC

IP67
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **5...25mm(Non-Flush)**	OPERATING VOLTAGE **18...30V DC**
SWITCHING FREQ. **30Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **40*40*54mm**	INGRESS PROTECTION **IP67**

FEATURES

- Multiple analog output modes
- Good linearity

MODEL CODES

Output Type	Model Code
Analog current / voltage 0...20 mA / 0...10 V	**BIAS-R40-M2N25-S124-S** SKU 10104492

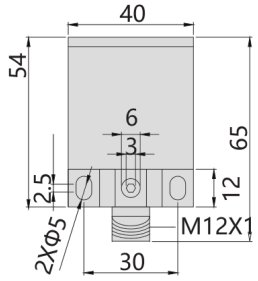
TECHNICAL DATA

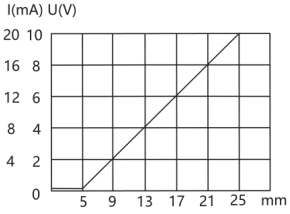
Size	40*40*54mm
Sensing distance	5...25mm(Non-Flush)
Operating voltage	18...30V DC
Switching frequency	30Hz
Output	0...20mA, ≤0.4kΩ / 0...10VDC, ≥4.7kΩ
No-load current	≤8mA
Hysteresis	<10%(Sr)
Repeatability	<2%(Sr)
Linear accuracy	≤5%(Sr)

Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	PBT
Sensing face material	PBT
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

Q40X54 Connector ①



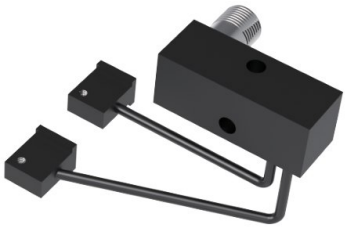


All dimensions in mm.

Q45 Rectangular Inductive Proximity Sensor

BIDP-R45-N2.0-S124 series · Sensing Distance: 2mm(Non-Flush) · Operating Voltage: 10-30VDC(±10%)

IP67
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **2mm(Non-Flush)**	OPERATING VOLTAGE **10-30VDC(±10%)**
SWITCHING FREQ. **30Hz**	AMBIENT TEMP. **-25-70°C**
INGRESS PROTECTION **IP67**	

MODEL CODES

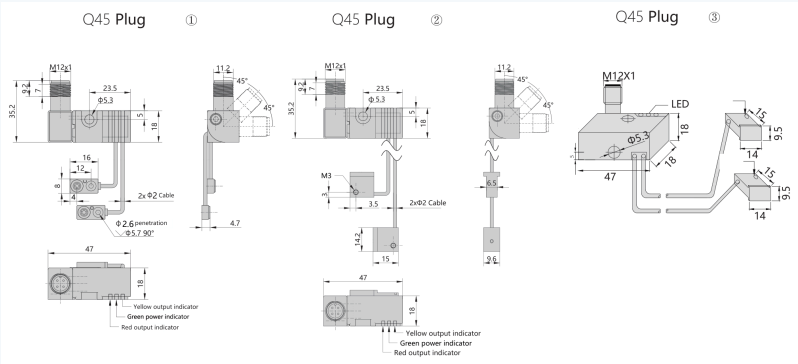
Output Type	Model Code
NPN N.O+N.C	**BIDP-R45-N31N2.0-S124** SKU 10104633
PNP N.O+N.C	**BIDP-R45-P31N2.0-S124** SKU 10104634

TECHNICAL DATA

Sensing distance	2mm(Non-Flush)
Switching frequency	30Hz
Operating voltage	10-30VDC(±10%)
Voltage drop	≤2.0V
Load current	150mA/24VDC
Leakage current	≤0.01mA
No-load current	≤20mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<2.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection Power-on

LED indicator	Yellow/Red: output; Green: power on
Ambient temperature	-25-70°C
Ingress protection	IP67
Housing material	Plastic, PBT-GF30-V0
Sensing face material	PP
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

R6 / R10 / R12 Ring Type Inductive Proximity Sensor

BIDR-R20-N10-N12-N15-N30-N6.0-PC2 series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 1000Hz

IP67
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **1000Hz**
AMBIENT TEMP. **-25...70°C**	INGRESS PROTECTION **IP67**

FEATURES

- High response frequency
- High protection level

MODEL CODES

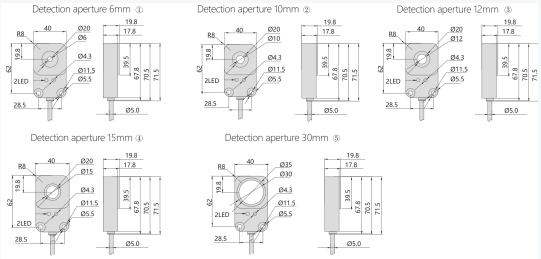
Output Type	6mm ①	10mm ②	12mm ③	15mm ④	30mm ⑤
NPN N.O	BIDR-R20-N11N6.0-PC2 SKU 10104639	BIDR-R20-N11N10-PC2 SKU 10104643	BIDR-R20-N11N12-PC2 SKU 10104647	BIDR-R20-N11N15-PC2 SKU 10104651	BIDR-R20-N11N30-PC2 SKU 10104655
NPN N.C	BIDR-R20-N21N6.0-PC2 SKU 10104640	BIDR-R20-N21N10-PC2 SKU 10104644	BIDR-R20-N21N12-PC2 SKU 10104648	BIDR-R20-N21N15-PC2 SKU 10104652	BIDR-R20-N21N30-PC2 SKU 10104656
PNP N.O	BIDR-R20-P11N6.0-PC2 SKU 10104641	BIDR-R20-P11N10-PC2 SKU 10104645	BIDR-R20-P11N12-PC2 SKU 10104649	BIDR-R20-P11N15-PC2 SKU 10104653	BIDR-R20-P11N30-PC2 SKU 10104657
PNP N.C	BIDR-R20-P21N6.0-PC2 SKU 10104642	BIDR-R20-P21N10-PC2 SKU 10104646	BIDR-R20-P21N12-PC2 SKU 10104650	BIDR-R20-P21N15-PC2 SKU 10104654	BIDR-R20-P21N30-PC2 SKU 10104658

TECHNICAL DATA

Detection aperture	6mm 10mm 12mm 15mm 30mm
Switching frequency	1000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤3.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤20mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	With (Green power indicator, yellow action indicator)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	PBT
Sensing face material	ABS
Connection	2m PVC Cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS

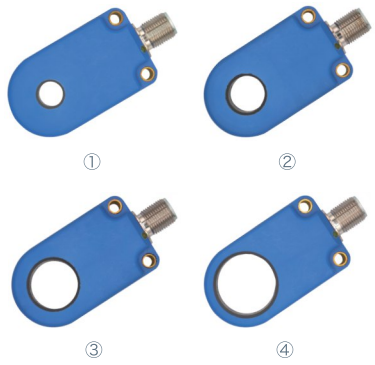


All dimensions in mm.

R10 / R15 / R20 Ring Type Inductive Proximity Sensor

BIDR-R20-N10-N15-N20-N25-S124-ADJ series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 1000Hz

IP67
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **1000Hz**
AMBIENT TEMP. **-25...70°C**	INGRESS PROTECTION **IP67**

FEATURES

- High response frequency
- High protection level

MODEL CODES

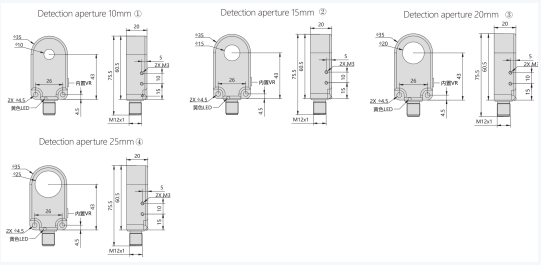
Output Type	10mm ①	15mm ②	20mm ③	25mm ④
NPN N.O	BIDR-R20-N11N10-S124-ADJ SKU 10104675	BIDR-R20-N11N15-S124-ADJ SKU 10104679	BIDR-R20-N11N20-S124-ADJ SKU 10104683	BIDR-R20-N11N25-S124-ADJ SKU 10104687
NPN N.C	BIDR-R20-N21N10-S124-ADJ SKU 10104676	BIDR-R20-N21N15-S124-ADJ SKU 10104680	BIDR-R20-N21N20-S124-ADJ SKU 10104684	BIDR-R20-N21N25-S124-ADJ SKU 10104688
PNP N.O	BIDR-R20-P11N10-S124-ADJ SKU 10104677	BIDR-R20-P11N15-S124-ADJ SKU 10104681	BIDR-R20-P11N20-S124-ADJ SKU 10104685	BIDR-R20-P11N25-S124-ADJ SKU 10104689
PNP N.C	BIDR-R20-P21N10-S124-ADJ SKU 10104678	BIDR-R20-P21N15-S124-ADJ SKU 10104682	BIDR-R20-P21N20-S124-ADJ SKU 10104686	BIDR-R20-P21N25-S124-ADJ SKU 10104690

TECHNICAL DATA

Detection aperture	10mm 15mm 20mm 25mm
Switching frequency	1000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤3.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤20mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	POM
Sensing face material	ABS
Connection	M12 Connector
Accessories	None

DIMENSIONAL DRAWINGS

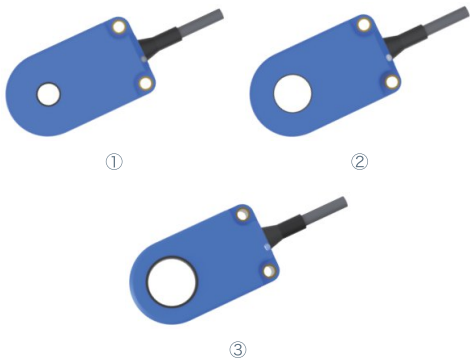


All dimensions in mm.

R10 / R15 / R20 Ring Type Inductive Proximity Sensor

BIDR-R20-N10-N15-N20-PC2-ADJ-T series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 1000Hz

IP67
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **1000Hz**
AMBIENT TEMP. **-25...70°C**	INGRESS PROTECTION **IP67**

FEATURES

- High response frequency
- High protection level Pulse spreading

MODEL CODES

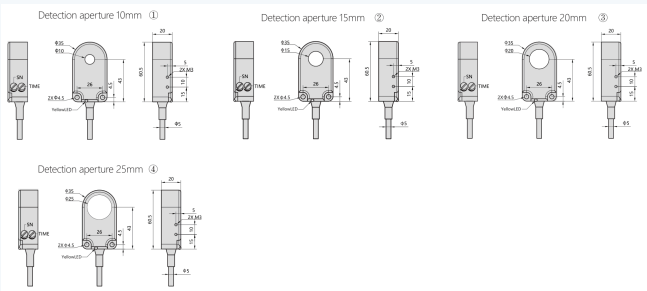
Output Type	10mm ①	15mm ②	20mm ③
NPN N.O	BIDR-R20-N11N10-PC2-ADJ-T SKU 10104691	BIDR-R20-N11N15-PC2-ADJ-T SKU 10104695	BIDR-R20-N11N20-PC2-ADJ-T SKU 10104699
NPN N.C	BIDR-R20-N21N10-PC2-ADJ-T SKU 10104692	BIDR-R20-N21N15-PC2-ADJ-T SKU 10104696	BIDR-R20-N21N20-PC2-ADJ-T SKU 10104700
PNP N.O	BIDR-R20-P11N10-PC2-ADJ-T SKU 10104693	BIDR-R20-P11N15-PC2-ADJ-T SKU 10104697	BIDR-R20-P11N20-PC2-ADJ-T SKU 10104701
PNP N.C	BIDR-R20-P21N10-PC2-ADJ-T SKU 10104694	BIDR-R20-P21N15-PC2-ADJ-T SKU 10104698	BIDR-R20-P21N20-PC2-ADJ-T SKU 10104702

TECHNICAL DATA

Detection aperture	10mm 15mm 20mm
Switching frequency	1000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤3.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤20mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Pulse spreading	10...500ms, adjustable

Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	POM
Sensing face material	ABS
Connection	2m PVC Cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS

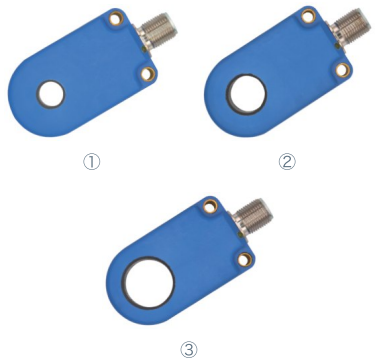


All dimensions in mm.

R10 / R15 / R20 Ring Type Inductive Proximity Sensor

BIDR-R20-N10-N15-N20-S124-ADJ-T series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 1000Hz

IP67
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **1000Hz**
AMBIENT TEMP. **-25...70°C**	INGRESS PROTECTION **IP67**

FEATURES

- High response frequency
- High protection level Pulse spreading

MODEL CODES

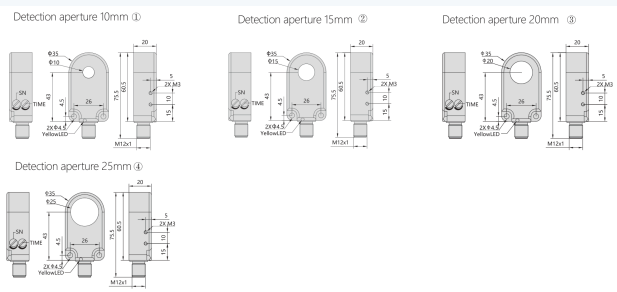
Output Type	10mm ①	15mm ②	20mm ③
NPN N.O	**BIDR-R20-N11N10-S124-ADJ-T** SKU 10104707	**BIDR-R20-N11N15-S124-ADJ-T** SKU 10104711	**BIDR-R20-N11N20-S124-ADJ-T** SKU 10104715
NPN N.C	**BIDR-R20-N21N10-S124-ADJ-T** SKU 10104708	**BIDR-R20-N21N15-S124-ADJ-T** SKU 10104712	**BIDR-R20-N21N20-S124-ADJ-T** SKU 10104716
PNP N.O	**BIDR-R20-P11N10-S124-ADJ-T** SKU 10104709	**BIDR-R20-P11N15-S124-ADJ-T** SKU 10104713	**BIDR-R20-P11N20-S124-ADJ-T** SKU 10104717
PNP N.C	**BIDR-R20-P21N10-S124-ADJ-T** SKU 10104710	**BIDR-R20-P21N15-S124-ADJ-T** SKU 10104714	**BIDR-R20-P21N20-S124-ADJ-T** SKU 10104718

TECHNICAL DATA

Detection aperture	10mm 15mm 20mm
Switching frequency	1000Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤3.0V
Load current	200mA
Leakage current	≤0.01mA
No-load current	≤20mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<1.0%(Sr)
Pulse spreading	10...500ms, adjustable

Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	POM
Sensing face material	ABS
Connection	M12 Connector
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

Other Models — Order List

Inductive Sensors · models without a datasheet page

M5 CYLINDRICAL



M5 Cylindrical Inductive Sensor

Sn 1.0mm | Flush | Miniature | IP67

SENSING DISTANCE
1.0mm

MOUNTING
Flush

HOUSING
Stainless steel

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
2000Hz

AMBIENT TEMPERATURE
-25...70°C

PROTECTION CLASS
IP67

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDS-M05-N11F1.0-PC2-S	10102967	NPN NO
BIDS-M05-N21F1.0-PC2-S	10102968	NPN NC
BIDS-M05-P11F1.0-PC2-S	10102969	PNP NO
BIDS-M05-P21F1.0-PC2-S	10102970	PNP NC
BIDS-M05-N11F1.0-PC2	10102971	NPN NO
BIDS-M05-N21F1.0-PC2	10102972	NPN NC
BIDS-M05-P11F1.0-PC2	10102973	PNP NO
BIDS-M05-P21F1.0-PC2	10102974	PNP NC



M5 Cylindrical Inductive Sensor

Sn 1.0mm | Flush | Miniature | IP67

SENSING DISTANCE
1.0mm

MOUNTING
Flush

HOUSING
Stainless steel

CONNECTION
M8 connector 3pin

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
2000Hz

AMBIENT TEMPERATURE
-25...70°C

PROTECTION CLASS
IP67

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDS-M05-N11F1.0-S83	10102975	NPN NO
BIDS-M05-N21F1.0-S83	10102976	NPN NC
BIDS-M05-P11F1.0-S83	10102977	PNP NO
BIDS-M05-P21F1.0-S83	10102978	PNP NC



M5 Cylindrical Inductive Sensor

Sn 1.0mm | Flush | Miniature | IP67

SENSING DISTANCE
1.0mm

MOUNTING
Flush

HOUSING
Stainless steel

CONNECTION
M8 0.3m cable with connector 3pin

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
2000Hz

AMBIENT TEMPERATURE
-25...70°C

PROTECTION CLASS
IP67

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDS-M05-N11F1.0-Z83	10102979	NPN NO
BIDS-M05-N21F1.0-Z83	10102980	NPN NC
BIDS-M05-P11F1.0-Z83	10102981	PNP NO
BIDS-M05-P21F1.0-Z83	10102982	PNP NC
BIDS-M05-N11F1.0-Z83-S	10102983	NPN NO
BIDS-M05-N21F1.0-Z83-S	10102984	NPN NC
BIDS-M05-P11F1.0-Z83-S	10102985	PNP NO
BIDS-M05-P21F1.0-Z83-S	10102986	PNP NC

Φ6.5 CYLINDRICAL



Φ6.5 Cylindrical Inductive Sensor

Sn 2mm | Non-flush | Namur | IP67

SENSING DISTANCE
2mm

MOUNTING
Non-flush

HOUSING
Stainless steel

CONNECTION
Cable 2m

OPERATING VOLTAGE
6-12VDC

SWITCHING FREQ.
1000Hz

AMBIENT TEMPERATURE
-25...70°C

PROTECTION CLASS
IP67

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDS-Q6,5-NA10N2.0-PC2	10103008	NO

Other Models — Order List

Inductive Sensors · models without a datasheet page

M8 CYLINDRICAL



M8 Cylindrical Inductive Sensor

Sn 1.5mm | Flush | Analog output | IP67

SENSING DISTANCE
1.5mm

MOUNTING
Flush

HOUSING
Brass nickel-plated

CONNECTION
Cable 2m

OPERATING VOLTAGE
18-30VDC

SWITCHING FREQ.
100Hz

AMBIENT TEMPERATURE
-25...70°C

PROTECTION CLASS
IP67

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIAS-M08-I2F1.5-PC2	10103122	0-20mA



M8 Cylindrical Inductive Sensor

Sn 1.5mm | Flush | Analog output | IP67

SENSING DISTANCE
1.5mm

MOUNTING
Flush

HOUSING
Brass nickel-plated

CONNECTION
M8 connector 3pin

OPERATING VOLTAGE
18-30VDC

SWITCHING FREQ.
100Hz

AMBIENT TEMPERATURE
-25...70°C

PROTECTION CLASS
IP67

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIAS-M08-I2F1.5-S83	10103124	0-20mA



M8 Cylindrical Inductive Sensor

Sn 2.5mm | Non-flush | Analog output | IP67

SENSING DISTANCE
2.5mm

MOUNTING
Non-flush

HOUSING
Brass nickel-plated

CONNECTION
Cable 2m

OPERATING VOLTAGE
18-30VDC

SWITCHING FREQ.
100Hz

AMBIENT TEMPERATURE
-25...70°C

PROTECTION CLASS
IP67

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIAS-M08-I2N2.5-PC2	10103241	0-20mA



M8 Cylindrical Inductive Sensor

Sn 2.5mm | Non-flush | Analog output | IP67

SENSING DISTANCE
2.5mm

MOUNTING
Non-flush

HOUSING
Brass nickel-plated

CONNECTION
M8 connector 3pin

OPERATING VOLTAGE
18-30VDC

SWITCHING FREQ.
100Hz

AMBIENT TEMPERATURE
-25...70°C

PROTECTION CLASS
IP67

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIAS-M08-I2N2.5-S83	10103243	0-20mA

Other Models — Order List

Inductive Sensors · models without a datasheet page

M12 CYLINDRICAL



M12 Cylindrical Inductive Sensor

Sn 3mm | Flush | High temperature | IP66

SENSING DISTANCE
3mm

MOUNTING
Flush

HOUSING
Stainless steel

CONNECTION
KFF46PH cable 3m/M12 connector

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
150Hz

AMBIENT TEMPERATURE
-25...150°C

PROTECTION CLASS
IP66

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDH-M12-N11F3.0-K3Z124-150	10103416	NPN NO
BIDH-M12-N21F3.0-K3Z124-150	10103419	NPN NC
BIDH-M12-P11F3.0-K3Z124-150	10103422	PNP NO
BIDH-M12-P21F3.0-K3Z124-150	10103425	PNP NC
BIDH-M12-N31F3.0-K3Z124-150	10103428	NPN NO+NC
BIDH-M12-P31F3.0-K3Z124-150	10103431	PNP NO+NC



M12 Cylindrical Inductive Sensor

Sn 3mm | Flush | High temperature | IP66

SENSING DISTANCE
3mm

MOUNTING
Flush

HOUSING
Stainless steel

CONNECTION
KFF46PH cable 3m/M12 connector

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
150Hz

AMBIENT TEMPERATURE
-25...180°C

PROTECTION CLASS
IP66

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDH-M12-N11F3.0-K3Z124-180	10103417	NPN NO
BIDH-M12-N21F3.0-K3Z124-180	10103420	NPN NC
BIDH-M12-P11F3.0-K3Z124-180	10103423	PNP NO
BIDH-M12-P21F3.0-K3Z124-180	10103426	PNP NC
BIDH-M12-N31F3.0-K3Z124-180	10103429	NPN NO+NC
BIDH-M12-P31F3.0-K3Z124-180	10103432	PNP NO+NC



M12 Cylindrical Inductive Sensor

Sn 3mm | Flush | High temperature | IP66

SENSING DISTANCE
3mm

MOUNTING
Flush

HOUSING
Stainless steel

CONNECTION
KFF46PH cable 3m/M12 connector

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
150Hz

AMBIENT TEMPERATURE
-25...230°C

PROTECTION CLASS
IP66

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDH-M12-N11F3.0-K3Z124-230EXT	10103418	NPN NO
BIDH-M12-N21F3.0-K3Z124-230EXT	10103421	NPN NC
BIDH-M12-P11F3.0-K3Z124-230EXT	10103424	PNP NO
BIDH-M12-P21F3.0-K3Z124-230EXT	10103427	PNP NC
BIDH-M12-N31F3.0-K3Z124-230EXT	10103430	NPN NO+NC
BIDH-M12-P31F3.0-K3Z124-230EXT	10103433	PNP NO+NC



M12 Cylindrical Inductive Sensor

Sn 4mm | Non-flush | High temperature | IP66

SENSING DISTANCE
4mm

MOUNTING
Non-flush

HOUSING
Stainless steel

CONNECTION
KFF46PH cable 3m/M12 connector

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
150Hz

AMBIENT TEMPERATURE
-25...150°C

PROTECTION CLASS
IP66

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDH-M12-N11N4.0-K3Z124-150	10103515	NPN NO
BIDH-M12-N21N4.0-K3Z124-150	10103518	NPN NC
BIDH-M12-P11N4.0-K3Z124-150	10103521	PNP NO
BIDH-M12-P21N4.0-K3Z124-150	10103524	PNP NC
BIDH-M12-N31N4.0-K3Z124-150	10103527	NPN NO+NC
BIDH-M12-P31N4.0-K3Z124-150	10103530	PNP NO+NC

Other Models — Order List

Inductive Sensors · models without a datasheet page



M12 Cylindrical Inductive Sensor

Sn 4mm | Non-flush | High temperature | IP66

SENSING DISTANCE
4mm

MOUNTING
Non-flush

HOUSING
Stainless steel

CONNECTION
KFF46PH cable 3m/M12 connector

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
150Hz

AMBIENT TEMPERATURE
-25...180°C

PROTECTION CLASS
IP66

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDH-M12-N11N4.0-K3Z124-180	10103516	NPN NO
BIDH-M12-N21N4.0-K3Z124-180	10103519	NPN NC
BIDH-M12-P11N4.0-K3Z124-180	10103522	PNP NO
BIDH-M12-P21N4.0-K3Z124-180	10103525	PNP NC
BIDH-M12-N31N4.0-K3Z124-180	10103528	NPN NO+NC
BIDH-M12-P31N4.0-K3Z124-180	10103531	PNP NO+NC



M12 Cylindrical Inductive Sensor

Sn 4mm | Non-flush | High temperature | IP66

SENSING DISTANCE
4mm

MOUNTING
Non-flush

HOUSING
Stainless steel

CONNECTION
KFF46PH cable 3m/M12 connector

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
150Hz

AMBIENT TEMPERATURE
-25...230°C

PROTECTION CLASS
IP66

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDH-M12-N11N4.0-K3Z124-230EXT	10103517	NPN NO
BIDH-M12-N21N4.0-K3Z124-230EXT	10103520	NPN NC
BIDH-M12-P11N4.0-K3Z124-230EXT	10103523	PNP NO
BIDH-M12-P21N4.0-K3Z124-230EXT	10103526	PNP NC
BIDH-M12-N31N4.0-K3Z124-230EXT	10103529	NPN NO+NC
BIDH-M12-P31N4.0-K3Z124-230EXT	10103532	PNP NO+NC

M18 CYLINDRICAL



M18 Cylindrical Inductive Sensor

Sn 5mm | Flush | High temperature | IP66

SENSING DISTANCE
5mm

MOUNTING
Flush

HOUSING
Stainless steel

CONNECTION
KFF46PH cable 3m/M12 connector

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
100Hz

AMBIENT TEMPERATURE
-25...150°C

PROTECTION CLASS
IP66

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDH-M18-N11F5.0-K3Z124-150	10103688	NPN NO
BIDH-M18-N21F5.0-K3Z124-150	10103691	NPN NC
BIDH-M18-P11F5.0-K3Z124-150	10103694	PNP NO
BIDH-M18-P21F5.0-K3Z124-150	10103697	PNP NC
BIDH-M18-N31F5.0-K3Z124-150	10103700	NPN NO+NC
BIDH-M18-P31F5.0-K3Z124-150	10103703	PNP NO+NC



M18 Cylindrical Inductive Sensor

Sn 5mm | Flush | High temperature | IP66

SENSING DISTANCE
5mm

MOUNTING
Flush

HOUSING
Stainless steel

CONNECTION
KFF46PH cable 3m/M12 connector

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
100Hz

AMBIENT TEMPERATURE
-25...180°C

PROTECTION CLASS
IP66

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDH-M18-N11F5.0-K3Z124-180	10103689	NPN NO
BIDH-M18-N21F5.0-K3Z124-180	10103692	NPN NC
BIDH-M18-P11F5.0-K3Z124-180	10103695	PNP NO
BIDH-M18-P21F5.0-K3Z124-180	10103698	PNP NC
BIDH-M18-N31F5.0-K3Z124-180	10103701	NPN NO+NC
BIDH-M18-P31F5.0-K3Z124-180	10103704	PNP NO+NC

Other Models — Order List

Inductive Sensors · models without a datasheet page



M18 Cylindrical Inductive Sensor

Sn 5mm | Flush | High temperature | IP66

SENSING DISTANCE
5mm

MOUNTING
Flush

HOUSING
Stainless steel

CONNECTION
KFF46PH cable 3m/M12 connector

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
100Hz

AMBIENT TEMPERATURE
-25...230°C

PROTECTION CLASS
IP66

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDH-M18-N11F5.0-K3Z124-230EXT	10103690	NPN NO
BIDH-M18-N21F5.0-K3Z124-230EXT	10103693	NPN NC
BIDH-M18-P11F5.0-K3Z124-230EXT	10103696	PNP NO
BIDH-M18-P21F5.0-K3Z124-230EXT	10103699	PNP NC
BIDH-M18-N31F5.0-K3Z124-230EXT	10103702	NPN NO+NC
BIDH-M18-P31F5.0-K3Z124-230EXT	10103705	PNP NO+NC



M18 Cylindrical Inductive Sensor

Sn 5mm | Flush | Namur | IP67

SENSING DISTANCE
5mm

MOUNTING
Flush

HOUSING
Brass nickel-plated

CONNECTION
Cable 2m

OPERATING VOLTAGE
6-12VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...70°C

PROTECTION CLASS
IP67

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDS-M18-NA10F5.0-PC2	10103667	NO



M18 Cylindrical Inductive Sensor

Sn 8mm | Non-flush | High temperature | IP66

SENSING DISTANCE
8mm

MOUNTING
Non-flush

HOUSING
Stainless steel

CONNECTION
KFF46PH cable 3m/M12 connector

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
100Hz

AMBIENT TEMPERATURE
-25...150°C

PROTECTION CLASS
IP66

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDH-M18-N11N8.0-K3Z124-150	10103865	NPN NO
BIDH-M18-N21N8.0-K3Z124-150	10103868	NPN NC
BIDH-M18-P11N8.0-K3Z124-150	10103871	PNP NO
BIDH-M18-P21N8.0-K3Z124-150	10103874	PNP NC
BIDH-M18-N31N8.0-K3Z124-150	10103877	NPN NO+NC
BIDH-M18-P31N8.0-K3Z124-150	10103880	PNP NO+NC



M18 Cylindrical Inductive Sensor

Sn 8mm | Non-flush | High temperature | IP66

SENSING DISTANCE
8mm

MOUNTING
Non-flush

HOUSING
Stainless steel

CONNECTION
KFF46PH cable 3m/M12 connector

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
100Hz

AMBIENT TEMPERATURE
-25...180°C

PROTECTION CLASS
IP66

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDH-M18-N11N8.0-K3Z124-180	10103866	NPN NO
BIDH-M18-N21N8.0-K3Z124-180	10103869	NPN NC
BIDH-M18-P11N8.0-K3Z124-180	10103872	PNP NO
BIDH-M18-P21N8.0-K3Z124-180	10103875	PNP NC
BIDH-M18-N31N8.0-K3Z124-180	10103878	NPN NO+NC
BIDH-M18-P31N8.0-K3Z124-180	10103881	PNP NO+NC

Other Models — Order List

Inductive Sensors · models without a datasheet page



M18 Cylindrical Inductive Sensor

Sn 8mm | Non-flush | High temperature | IP66

SENSING DISTANCE
8mm

MOUNTING
Non-flush

HOUSING
Stainless steel

CONNECTION
KFF46PH cable 3m/M12 connector

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
100Hz

AMBIENT TEMPERATURE
-25...230°C

PROTECTION CLASS
IP66

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDH-M18-N11N8.0-K3Z124-230EXT	10103867	NPN NO
BIDH-M18-N21N8.0-K3Z124-230EXT	10103870	NPN NC
BIDH-M18-P11N8.0-K3Z124-230EXT	10103873	PNP NO
BIDH-M18-P21N8.0-K3Z124-230EXT	10103876	PNP NC
BIDH-M18-N31N8.0-K3Z124-230EXT	10103879	NPN NO+NC
BIDH-M18-P31N8.0-K3Z124-230EXT	10103882	PNP NO+NC



M18 Cylindrical Inductive Sensor

Sn 8mm | Flush | IP67

SENSING DISTANCE
8mm

MOUNTING
Flush

HOUSING
Brass nickel-plated

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-60VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...70°C

PROTECTION CLASS
IP67

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDS-M18-D13F8.0-PC2	10103829	NO
BIDS-M18-D23F8.0-PC2	10103830	NC
BIDS-M18-D13F8.0-PC2-S	10103831	NO
BIDS-M18-D23F8.0-PC2-S	10103832	NC



M18 Cylindrical Inductive Sensor

Sn 8mm | Flush | IP67

SENSING DISTANCE
8mm

MOUNTING
Flush

HOUSING
Brass nickel-plated

CONNECTION
M12 connector 4pin

OPERATING VOLTAGE
10-60VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...70°C

PROTECTION CLASS
IP67

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDS-M18-D13F8.0-S124	10103833	NO
BIDS-M18-D23F8.0-S124	10103834	NC
BIDS-M18-D13F8.0-S124-S	10103835	NO
BIDS-M18-D23F8.0-S124-S	10103836	NC



M18 Cylindrical Inductive Sensor

Sn 8mm | Non-flush | Namur | IP67

SENSING DISTANCE
8mm

MOUNTING
Non-flush

HOUSING
Brass nickel-plated

CONNECTION
Cable 2m

OPERATING VOLTAGE
6-12VDC

SWITCHING FREQ.
300Hz

AMBIENT TEMPERATURE
-25...70°C

PROTECTION CLASS
IP67

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDS-M18-NA10N8.0-PC2	10103788	NO

Other Models — Order List

Inductive Sensors · models without a datasheet page

M30 CYLINDRICAL



M30 Cylindrical Inductive Sensor

Sn 10mm | Flush | High temperature | IP66

SENSING DISTANCE
10mm

MOUNTING
Flush

HOUSING
Stainless steel

CONNECTION
KFF46PH cable 3m/M12 connector

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
50Hz

AMBIENT TEMPERATURE
-25...150°C

PROTECTION CLASS
IP66

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDH-M30-N11F10-K3Z124-150	10104094	NPN NO
BIDH-M30-N21F10-K3Z124-150	10104097	NPN NC
BIDH-M30-P11F10-K3Z124-150	10104100	PNP NO
BIDH-M30-P21F10-K3Z124-150	10104103	PNP NC
BIDH-M30-N31F10-K3Z124-150	10104106	NPN NO+NC
BIDH-M30-P31F10-K3Z124-150	10104109	PNP NO+NC



M30 Cylindrical Inductive Sensor

Sn 10mm | Flush | High temperature | IP66

SENSING DISTANCE
10mm

MOUNTING
Flush

HOUSING
Stainless steel

CONNECTION
KFF46PH cable 3m/M12 connector

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
50Hz

AMBIENT TEMPERATURE
-25...180°C

PROTECTION CLASS
IP66

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDH-M30-N11F10-K3Z124-180	10104095	NPN NO
BIDH-M30-N21F10-K3Z124-180	10104098	NPN NC
BIDH-M30-P11F10-K3Z124-180	10104101	PNP NO
BIDH-M30-P21F10-K3Z124-180	10104104	PNP NC
BIDH-M30-N31F10-K3Z124-180	10104107	NPN NO+NC
BIDH-M30-P31F10-K3Z124-180	10104110	PNP NO+NC



M30 Cylindrical Inductive Sensor

Sn 10mm | Flush | High temperature | IP66

SENSING DISTANCE
10mm

MOUNTING
Flush

HOUSING
Stainless steel

CONNECTION
KFF46PH cable 3m/M12 connector

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
50Hz

AMBIENT TEMPERATURE
-25...230°C

PROTECTION CLASS
IP66

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDH-M30-N11F10-K3Z124-230EXT	10104096	NPN NO
BIDH-M30-N21F10-K3Z124-230EXT	10104099	NPN NC
BIDH-M30-P11F10-K3Z124-230EXT	10104102	PNP NO
BIDH-M30-P21F10-K3Z124-230EXT	10104105	PNP NC
BIDH-M30-N31F10-K3Z124-230EXT	10104108	NPN NO+NC
BIDH-M30-P31F10-K3Z124-230EXT	10104111	PNP NO+NC



M30 Cylindrical Inductive Sensor

Sn 10mm | Flush | Namur | IP67

SENSING DISTANCE
10mm

MOUNTING
Flush

HOUSING
Brass nickel-plated

CONNECTION
Cable 2m

OPERATING VOLTAGE
6-12VDC

SWITCHING FREQ.
300Hz

AMBIENT TEMPERATURE
-25...70°C

PROTECTION CLASS
IP67

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDS-M30-NA10F10-PC2	10104039	NO

Other Models — Order List

Inductive Sensors · models without a datasheet page



M30 Cylindrical Inductive Sensor

Sn 15mm | Non-flush | High temperature | IP66

SENSING DISTANCE
15mm

MOUNTING
Non-flush

HOUSING
Stainless steel

CONNECTION
KFF46PH cable 3m/M12 connector

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
50Hz

AMBIENT TEMPERATURE
-25...150°C

PROTECTION CLASS
IP66

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDH-M30-N11N15-K3Z124-150	10104163	NPN NO



M30 Cylindrical Inductive Sensor

Sn 15mm | Flush | High temperature | IP66

SENSING DISTANCE
15mm

MOUNTING
Flush

HOUSING
Stainless steel

CONNECTION
KFF46PH cable 3m/M12 connector

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
50Hz

AMBIENT TEMPERATURE
-25...180°C

PROTECTION CLASS
IP66

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDH-M30-N11N15-K3Z124-180	10104164	NPN NO
BIDH-M30-N21N15-K3Z124-180	10104167	NPN NC
BIDH-M30-P11N15-K3Z124-180	10104170	PNP NO
BIDH-M30-P21N15-K3Z124-180	10104173	PNP NC
BIDH-M30-N31N15-K3Z124-180	10104176	NPN NO+NC
BIDH-M30-P31N15-K3Z124-180	10104179	PNP NO+NC



M30 Cylindrical Inductive Sensor

Sn 15mm | Non-flush | High temperature | IP66

SENSING DISTANCE
15mm

MOUNTING
Non-flush

HOUSING
Stainless steel

CONNECTION
KFF46PH cable 3m/M12 connector

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
50Hz

AMBIENT TEMPERATURE
-25...230°C

PROTECTION CLASS
IP66

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDH-M30-N11N15-K3Z124-230EXT	10104165	NPN NO
BIDH-M30-N21N15-K3Z124-230EXT	10104168	NPN NC
BIDH-M30-P11N15-K3Z124-230EXT	10104171	PNP NO
BIDH-M30-P21N15-K3Z124-230EXT	10104174	PNP NC
BIDH-M30-N31N15-K3Z124-230EXT	10104177	NPN NO+NC
BIDH-M30-P31N15-K3Z124-230EXT	10104180	PNP NO+NC



M30 Cylindrical Inductive Sensor

Sn 15mm | Flush | High temperature | IP66

SENSING DISTANCE
15mm

MOUNTING
Flush

HOUSING
Stainless steel

CONNECTION
KFF46PH cable 3m/M12 connector

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
50Hz

AMBIENT TEMPERATURE
-25...150°C

PROTECTION CLASS
IP66

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDH-M30-N21N15-K3Z124-150	10104166	NPN NC
BIDH-M30-P11N15-K3Z124-150	10104169	PNP NO
BIDH-M30-P21N15-K3Z124-150	10104172	PNP NC
BIDH-M30-N31N15-K3Z124-150	10104175	NPN NO+NC
BIDH-M30-P31N15-K3Z124-150	10104178	PNP NO+NC

Other Models — Order List

Inductive Sensors · models without a datasheet page



M30 Cylindrical Inductive Sensor

Sn 15mm | Non-flush | Namur | IP67

SENSING DISTANCE
15mm

MOUNTING
Non-flush

HOUSING
Brass nickel-plated

CONNECTION
Cable 2m

OPERATING VOLTAGE
6-12VDC

SWITCHING FREQ.
300Hz

AMBIENT TEMPERATURE
-25...70°C

PROTECTION CLASS
IP67

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDS-M30-NA10N15-PC2	10104162	NO



M30 Cylindrical Inductive Sensor

Sn 30mm | Non-flush | High temperature | IP67

SENSING DISTANCE
30mm

MOUNTING
Non-flush

HOUSING
Brass,nickel-plated

CONNECTION
Silicone cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
300Hz

AMBIENT TEMPERATURE
-25...120°C

PROTECTION CLASS
IP67

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDH-M30-N11N30-G2-120	10105435	NPN NO
BIDH-M30-N21N30-G2-120	10105436	NPN NC
BIDH-M30-P11N30-G2-120	10105437	PNP NO



M30 Cylindrical Inductive Sensor

Sn 30mm | Non-flush | IP67

SENSING DISTANCE
30mm

MOUNTING
Non-flush

HOUSING
Brass,nickel-plated

CONNECTION
Silicone cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
300Hz

AMBIENT TEMPERATURE
-25...120°C

PROTECTION CLASS
IP67

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDH-M30-P21N30-G2-120	10105438	PNP NC

M50 CYLINDRICAL



M50 Cylindrical Inductive Sensor

Sn 30mm | Non-flush | High temperature | IP65

SENSING DISTANCE
30mm

MOUNTING
Non-flush

HOUSING
Stainless steel

CONNECTION
LEMO connector

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
0-20Hz

AMBIENT TEMPERATURE
-25-250°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDH-M50-N11N30-L	10104345	PNP NC

Other Models — Order List

Inductive Sensors · models without a datasheet page

Q25 RECTANGULAR



Q25 Rectangular Inductive Sensor

Sn 4mm | Non-flush | IP67

SENSING DISTANCE
4mm

MOUNTING
Non-flush

HOUSING
Plastic

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
1000Hz

AMBIENT TEMPERATURE
-25...70°C

PROTECTION CLASS
IP67

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDP-R25-N11N4.0-PC2	10104480	NPN NO
BIDP-R25-N21N4.0-PC2	10104481	NPN NC
BIDP-R25-P11N4.0-PC2	10104482	PNP NO
BIDP-R25-P21N4.0-PC2	10104483	PNP NC

Q30 RECTANGULAR



Q30 Rectangular Inductive Sensor

Sn 15mm | Non-flush | IP67

SENSING DISTANCE
15mm

MOUNTING
Non-flush

HOUSING
Plastic

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

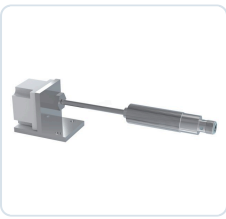
AMBIENT TEMPERATURE
-25...70°C

PROTECTION CLASS
IP67

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDP-R30-N11N15-PC2	10104468	NPN NO
BIDP-R30-N21N15-PC2	10104469	NPN NC
BIDP-R30-P11N15-PC2	10104470	PNP NO
BIDP-R30-P21N15-PC2	10104471	PNP NC

Q40 RECTANGULAR



Q40 Rectangular Inductive Sensor

Sn 25mm | Non-flush | High temperature | Sensor IP40 Amplifier IP67

SENSING DISTANCE
25mm

MOUNTING
Non-flush

HOUSING
Stainless steel

CONNECTION
KFF46PH cable 3m/M12 connector

OPERATING VOLTAGE
10-30VDC

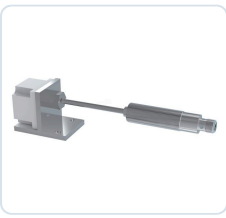
SWITCHING FREQ.
0-20Hz

AMBIENT TEMPERATURE
-25...180°C

PROTECTION CLASS
Sensor IP40 Amplifier IP67

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDH-R40-N11N25-K3Z124-180	10104525	NPN NO
BIDH-R40-N21N25-K3Z124-180	10104527	NPN NC
BIDH-R40-P11N25-K3Z124-180	10104529	PNP NO
BIDH-R40-P21N25-K3Z124-180	10104531	PNP NC
BIDH-R40-N31N25-K3Z124-180	10104533	NPN NO+NC
BIDH-R40-P31N25-K3Z124-180	10104535	PNP NO+NC



Q40 Rectangular Inductive Sensor

Sn 25mm | Non-flush | High temperature | Sensor IP40 Amplifier IP67

SENSING DISTANCE
25mm

MOUNTING
Non-flush

HOUSING
Stainless steel

CONNECTION
KFF46PH cable 3m/M12 connector

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
0-20Hz

AMBIENT TEMPERATURE
-25...250°C

PROTECTION CLASS
Sensor IP40 Amplifier IP67

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDH-R40-N11N25-K3Z124-250EXT	10104526	NPN NO
BIDH-R40-N21N25-K3Z124-250EXT	10104528	NPN NC
BIDH-R40-P11N25-K3Z124-250EXT	10104530	PNP NO
BIDH-R40-P21N25-K3Z124-250EXT	10104532	PNP NC
BIDH-R40-N31N25-K3Z124-250EXT	10104534	NPN NO+NC
BIDH-R40-P31N25-K3Z124-250EXT	10104536	PNP NO+NC

Other Models — Order List

Inductive Sensors · models without a datasheet page



Q40 Rectangular Inductive Sensor

Sn 25mm | Non-flush | IP67

SENSING DISTANCE
25mm

MOUNTING
Non-flush

HOUSING
ABS

CONNECTION
2m PVC cable

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
300Hz

AMBIENT TEMPERATURE
-25...+70°C

PROTECTION CLASS
IP67

CE

Product code	SKU	Output
BIDP-R40-N11N25-PC2	10105441	NPN NO
BIDP-R40-N21N25-PC2	10105442	NPN NC
BIDP-R40-P11N25-PC2	10105443	PNP NO
BIDP-R40-P21N25-PC2	10105444	PNP NC



Q40 Rectangular Inductive Sensor

Sn 35mm | Non-flush | IP67

SENSING DISTANCE
35mm

MOUNTING
Non-flush

HOUSING
ABS

CONNECTION
2m PVC cable

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
100Hz

AMBIENT TEMPERATURE
-25...+70°C

PROTECTION CLASS
IP67

CE

Product code	SKU	Output
BIDP-R40-N11N35-PC2	10105445	NPN NO
BIDP-R40-N21N35-PC2	10105446	NPN NC
BIDP-R40-P11N35-PC2	10105447	PNP NO
BIDP-R40-P21N35-PC2	10105448	PNP NC



Q40 Rectangular Inductive Sensor

Sn 40mm | Non-flush | IP67

SENSING DISTANCE
40mm

MOUNTING
Non-flush

HOUSING
Plastic

CONNECTION
M12 connector 4pin

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
100Hz

AMBIENT TEMPERATURE
-25...70°C

PROTECTION CLASS
IP67

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDP-R40-N31N40-S124	10105439	NPN NO-NC
BIDP-R40-P31N40-S124	10105440	PNP NO-NC



Q40 Rectangular Inductive Sensor

Sn 40mm | Non-flush | IP67

SENSING DISTANCE
40mm

MOUNTING
Non-flush

HOUSING
Plastic

CONNECTION
Terminal

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
100Hz

AMBIENT TEMPERATURE
-25...70°C

PROTECTION CLASS
IP67

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDP-R40-N31N40-T	10105433	NPN NO - NC
BIDP-R40-P31N40-T	10105434	PNP NO - NC

Q45 RECTANGULAR



Q45 Rectangular Inductive Sensor

Sn 2mm | Non-flush | IP67

SENSING DISTANCE
2mm

MOUNTING
Non-flush

HOUSING
Plastic

CONNECTION
M12 connector 4pin

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
30Hz

AMBIENT TEMPERATURE
-25...70°C

PROTECTION CLASS
IP67

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDP-R45-N31N2.0-S124-Q8	10105429	NPN NO+NC
BIDP-R45-P31N2.0-S124-Q8	10105430	PNP NO+NC
BIDP-R45-N31N2.0-S124-Q10	10105431	NPN NO+NC
BIDP-R45-P31N2.0-S124-Q10	10105432	PNP NO+NC

Other Models — Order List

Inductive Sensors · models without a datasheet page

R10 RING TYPE



R10 Ring Type Inductive Sensor

Sn 10mm | Non-flush | Ring probe | IP67

SENSING DISTANCE
10mm

MOUNTING
Non-flush

HOUSING
Plastic

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
1000Hz

AMBIENT TEMPERATURE
-25...70°C

PROTECTION CLASS
IP67

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDR-R20-N11N10-PC2-ADJ	10104659	NPN NO
BIDR-R20-N21N10-PC2-ADJ	10104660	NPN NC
BIDR-R20-P11N10-PC2-ADJ	10104661	PNP NO
BIDR-R20-P21N10-PC2-ADJ	10104662	PNP NC

R15 RING TYPE



R15 Ring Type Inductive Sensor

Sn 15mm | Non-flush | Ring probe | IP67

SENSING DISTANCE
15mm

MOUNTING
Non-flush

HOUSING
Plastic

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
1000Hz

AMBIENT TEMPERATURE
-25...70°C

PROTECTION CLASS
IP67

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDR-R20-N11N15-PC2-ADJ	10104663	NPN NO
BIDR-R20-N21N15-PC2-ADJ	10104664	NPN NC
BIDR-R20-P11N15-PC2-ADJ	10104665	PNP NO
BIDR-R20-P21N15-PC2-ADJ	10104666	PNP NC

R20 RING TYPE



R20 Ring Type Inductive Sensor

Sn 20mm | Non-flush | Ring probe | IP67

SENSING DISTANCE
20mm

MOUNTING
Non-flush

HOUSING
Plastic

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
1000Hz

AMBIENT TEMPERATURE
-25...70°C

PROTECTION CLASS
IP67

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDR-R20-N11N20-PC2-ADJ	10104667	NPN NO
BIDR-R20-N21N20-PC2-ADJ	10104668	NPN NC
BIDR-R20-P11N20-PC2-ADJ	10104669	PNP NO
BIDR-R20-P21N20-PC2-ADJ	10104670	PNP NC

R25 RING TYPE



R25 Ring Type Inductive Sensor

Sn 25mm | Non-flush | Ring probe | IP67

SENSING DISTANCE
25mm

MOUNTING
Non-flush

HOUSING
Plastic

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
1000Hz

AMBIENT TEMPERATURE
-25...70°C

PROTECTION CLASS
IP67

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDR-R20-N11N25-PC2-ADJ	10104671	NPN NO
BIDR-R20-N21N25-PC2-ADJ	10104672	NPN NC
BIDR-R20-P11N25-PC2-ADJ	10104673	PNP NO
BIDR-R20-P21N25-PC2-ADJ	10104674	PNP NC
BIDR-R20-N11N25-PC2-ADJ-T	10104703	NPN NO
BIDR-R20-N21N25-PC2-ADJ-T	10104704	NPN NC
BIDR-R20-P11N25-PC2-ADJ-T	10104705	PNP NO
BIDR-R20-P21N25-PC2-ADJ-T	10104706	PNP NC

Other Models — Order List

Inductive Sensors · models without a datasheet page



R25 Ring Type Inductive Sensor

Sn 25mm | Non-flush | Ring probe | IP67

SENSING DISTANCE
25mm

MOUNTING
Non-flush

HOUSING
Plastic

CONNECTION
M12 connector 4pin

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
1000Hz

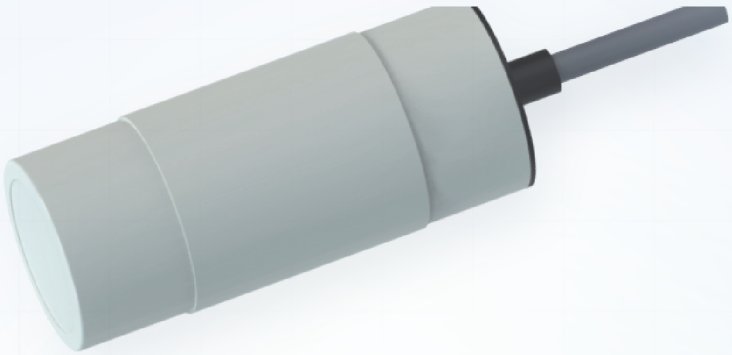
AMBIENT TEMPERATURE
-25...70°C

PROTECTION CLASS
IP67

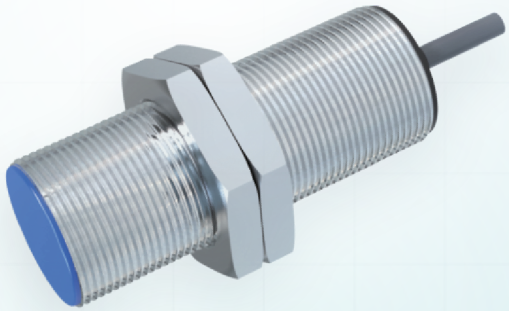
ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BIDR-R20-N11N25-S124-ADJ-T	10104719	NPN NO
BIDR-R20-N21N25-S124-ADJ-T	10104720	NPN NC
BIDR-R20-P11N25-S124-ADJ-T	10104721	PNP NO
BIDR-R20-P21N25-S124-ADJ-T	10104722	PNP NC

02



Capacitive Sensors



Capacitive sensors that also detect non-metallic materials. For level control of liquids, granules and powders, detection through container walls and position sensing.

305 MODELS

31 SERIES

01
Metallic and non-metallic materials

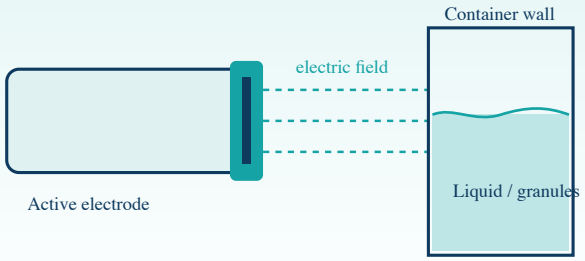
02
Level detection through container walls

03
Adjustable sensitivity

04
DC and AC/DC powered models

TECHNOLOGY

How capacitive sensors work



Electric field and dielectric change

The active electrode forms a capacitor with its surroundings. Material entering the sensing area changes the capacitance; when the change exceeds the threshold, the output switches. Non-metallic materials, liquids and powders can therefore be detected, including level detection through non-metallic container walls.

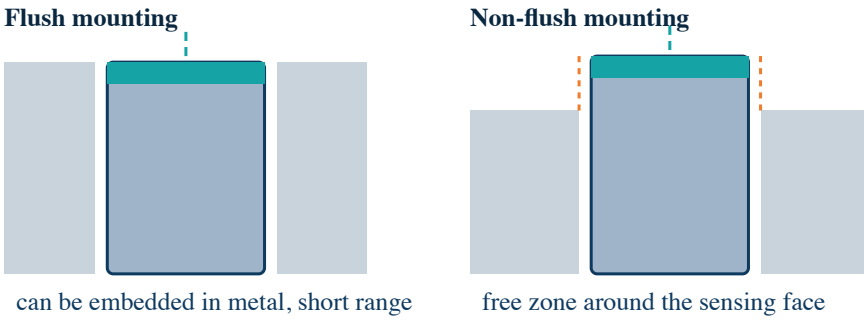
SELECTION TIPS

- Materials with a high **dielectric constant** (water, water-based products) are detected from further away.
- With the **sensitivity adjustment** the container wall can be suppressed so only the contents are detected.
- **Flush** models suit level and close-range detection; **non-flush** models give longer distances.
- **Supply:** AC/DC powered models are available alongside DC models.

TYPICAL APPLICATIONS

- Silo and tank level
- Granule and powder detection
- Liquid level control
- Product presence in packaging
- Wood, glass and plastic detection
- Food and beverage lines

MOUNTING



Non-flush models need a metal-free zone around the sensing face; when mounted side by side, keep enough spacing to prevent mutual interference.

Sensing distance depends on the dielectric properties and size of the material and on humidity; adjust the sensitivity after mounting.

QUICK SELECTION

Capacitive Sensors

Series grouped by housing type. Click a series code or page number to go to that page.



Φ6.5 Cylindrical

1 series · series code, sensing distance, page

BCDS-Q6.5-F1.0-N2.0-PC2-S83	1mm(Flush) / 2mm(Non-Flush)	162



M8 Cylindrical

1 series · series code, sensing distance, page

BCDS-M08-F1.0-PC2-S83-S124	1mm(Flush)	163



M12 Cylindrical

2 series · series code, sensing distance, page

BCDS-M12-N11F3.0-PC2	3mm	164
BCDS-M12-N11N6.0-PC2	6mm(Non-Flush)	165



M18 Cylindrical

10 series · series code, sensing distance, page

BCDS-M18-N11F5.0-PC2	5mm(Flush)	166
BCDS-M18-A14F8.0-PC2	8mm(Flush)	167
BCDS-M18-A14F8.0-S124	8mm(Flush)	168
BCDS-M18-N11F8.0-PC2	8mm(Flush)	169
BCDS-M18-N11F8.0-S124	8mm(Flush)	170
BCDS-M18-N11N8.0-PC2	8mm(Non-Flush)	171
BCDS-M18-A14N15-PC2	15mm(Non-Flush)	172
BCDS-M18-A14N15-S124	15mm(Non-Flush)	173
BCDS-M18-N11N15-PC2	15mm(Non-Flush)	174
BCDS-M18-N11N15-S124	15mm(Non-Flush)	175



M30 Cylindrical

10 series · series code, sensing distance, page

BCDS-M30-N11F10-PC2	10mm(Flush)	176
BCDS-M30-N11N15-PC2	15mm(Non-Flush)	177
BCDS-M30-A14F20-PC2	20mm(Flush)	178
BCDS-M30-A14F20-S124	20mm(Flush)	179
BCDS-M30-N11F20-PC2	20mm(Flush)	180
BCDS-M30-N11F20-S124	20mm(Flush)	181
BCDS-M30-A14N30-PC2	30mm(Non-Flush)	182
BCDS-M30-A14N30-S124	30mm(Non-Flush)	183
BCDS-M30-N11N30-PC2	30mm(Non-Flush)	184
BCDS-M30-N11N30-S124	30mm(Non-Flush)	185



Φ34 Cylindrical

4 series · series code, sensing distance, page

BCDP-Q34-A14F25-A24F25-U15F25-U25F25-PC2-Z124	25mm(Flush)	186
BCDP-Q34-F25-PC2-Z124	25mm(Flush)	187
BCDP-Q34-A14N35-A24N35-U15N35-U25N35-PC2-Z124	35mm(Non-Flush)	188
BCDP-Q34-N35-PC2	35mm(Non-Flush)	189



Q18 / Q30 / Q34 Rectangular

1 series · series code, sensing distance, page

BCDP-R18-F6.0-N10-N4.0-PC2	4mm(Non-Flush) / 6mm(Flush) / 10…	190



Q20 / Q25 Rectangular

1 series · series code, sensing distance, page

BCDP-R20-N10-N5.0-PC2	10mm(Non-Flush) / 5mm(Non-Flush)	191



Q25 / Q33 Rectangular

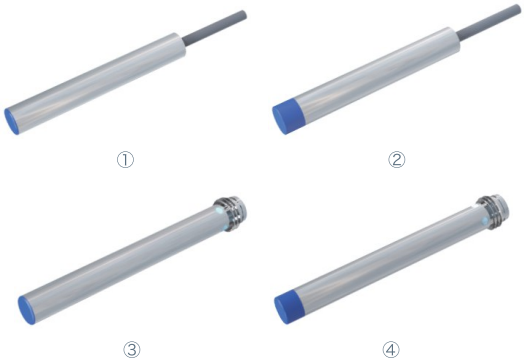
1 series · series code, sensing distance, page

CAPACITIVE

Φ6.5 Cylindrical Capacitive Proximity Sensor

BCDS-Q6.5-F1.0-N2.0-PC2-S83 series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 100Hz

IP67
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **100Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **Φ6.5mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Potentiometer for sensitivity adjustment
- Detecting non-metals
- Detection of non-metallic objects depends on the dielectric constant of the object

MODEL CODES

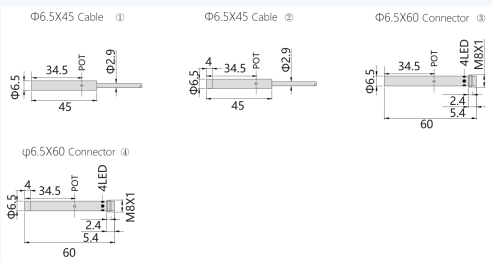
Output Type	①	②	③	④
NPN N.O	**BCDS-Q6.5-N11F1.0-PC2** SKU 10102601	**BCDS-Q6.5-N11N2.0-PC2** SKU 10102605	**BCDS-Q6.5-N11F1.0-S83** SKU 10102609	**BCDS-Q6.5-N11N2.0-S83** SKU 10102613
NPN N.C	**BCDS-Q6.5-N21F1.0-PC2** SKU 10102602	**BCDS-Q6.5-N21N2.0-PC2** SKU 10102606	**BCDS-Q6.5-N21F1.0-S83** SKU 10102610	**BCDS-Q6.5-N21N2.0-S83** SKU 10102614
PNP N.O	**BCDS-Q6.5-P11F1.0-PC2** SKU 10102603	**BCDS-Q6.5-P11N2.0-PC2** SKU 10102607	**BCDS-Q6.5-P11F1.0-S83** SKU 10102611	**BCDS-Q6.5-P11N2.0-S83** SKU 10102615
PNP N.C	**BCDS-Q6.5-P21F1.0-PC2** SKU 10102604	**BCDS-Q6.5-P21N2.0-PC2** SKU 10102608	**BCDS-Q6.5-P21F1.0-S83** SKU 10102612	**BCDS-Q6.5-P21N2.0-S83** SKU 10102616

TECHNICAL DATA

Exterior structure	Φ6.5mm
Sensing distance	①: 1mm(Flush) ②: 2mm(Non-Flush) ③: 1mm(Flush) ④: 2mm(Non-Flush)
Switching frequency	100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2.0VDC
Load current	100mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<5.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)

Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Stainless steel
Sensing face material	POM
Connection	①: 2m PVC Cable, 3*0.18mm² ②: M8 Connector ③: M8 Connector ④: M8 Connector
Accessories	①: None ②: M8 3 pin cable with connector ③: M8 3 pin cable with connector ④: M8 3 pin cable with connector

DIMENSIONAL DRAWINGS

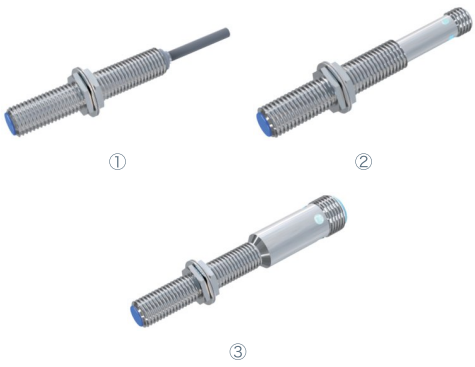


All dimensions in mm.

M8 Cylindrical Capacitive Proximity Sensor

BCDS-M08-F1.0-PC2-S83-S124 series · Sensing Distance: 1mm(Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **1mm(Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **100Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **M8*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Potentiometer for sensitivity adjustment
- Detecting non-metals
- Detection of non-metallic objects depends on the dielectric constant of the object

MODEL CODES

Output Type	①	②	③
NPN N.O	**BCDS-M08-N11F1.0-PC2** SKU 10102617	**BCDS-M08-N11F1.0-S83** SKU 10102621	**BCDS-M08-N11F1.0-S124** SKU 10102625
NPN N.C	**BCDS-M08-N21F1.0-PC2** SKU 10102618	**BCDS-M08-N21F1.0-S83** SKU 10102622	**BCDS-M08-N21F1.0-S124** SKU 10102626
PNP N.O	**BCDS-M08-P11F1.0-PC2** SKU 10102619	**BCDS-M08-P11F1.0-S83** SKU 10102623	**BCDS-M08-P11F1.0-S124** SKU 10102627
PNP N.C	**BCDS-M08-P21F1.0-PC2** SKU 10102620	**BCDS-M08-P21F1.0-S83** SKU 10102624	**BCDS-M08-P21F1.0-S124** SKU 10102628

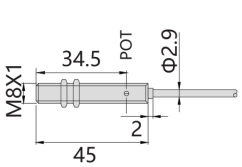
TECHNICAL DATA

Exterior structure	M8*1mm
Sensing distance	1mm(Flush)
Switching frequency	100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2VDC
Load current	100mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<5.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)

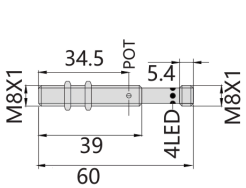
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	Brass, nickel-plated
Sensing face material	POM
Connection	①: 2m PVC Cable, 3*0.18mm² ②: M8 Connector ③: M12 Connector
Accessories	①: None ②: M8 3 pin cable with connector ③: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

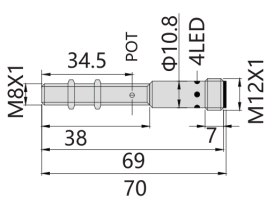
M8X45 Cable ①



M8X60 Connector ②



M8X70 Connector ③



All dimensions in mm.

M12 Cylindrical Capacitive Proximity Sensor

BCDS-M12-N11F3.0-PC2 series · Sensing Distance: 3mm · Operating Voltage: 10...30VDC

IP67
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **3mm**	OPERATING VOLTAGE **10...30VDC**
SWITCHING FREQ. **100Hz**	AMBIENT TEMP. **-25...70°C**
INGRESS PROTECTION **IP67**	

FEATURES

- Potentiometer for sensitivity adjustment
- Detecting non-metals
- Detection of non-metallic objects depends on the dielectric constant of the object

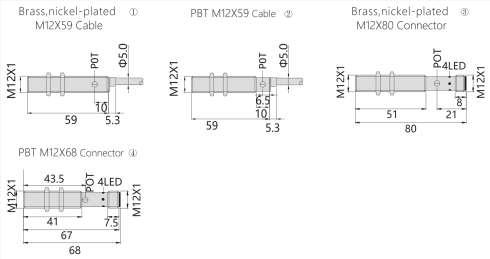
MODEL CODES

Output Type	①	②	③	④
NPN N.O	**BCDS-M12-N11F3.0-PC2** SKU 10102641	**BCDP-M12-N11F3.0-PC2** SKU 10102645	**BCDS-M12-N11F3.0-S124** SKU 10102649	**BCDP-M12-N11F3.0-S124** SKU 10102653
NPN N.C	**BCDS-M12-N21F3.0-PC2** SKU 10102642	**BCDP-M12-N21F3.0-PC2** SKU 10102646	**BCDS-M12-N21F3.0-S124** SKU 10102650	**BCDP-M12-N21F3.0-S124** SKU 10102654
PNP N.O	**BCDS-M12-P11F3.0-PC2** SKU 10102643	**BCDP-M12-P11F3.0-PC2** SKU 10102647	**BCDS-M12-P11F3.0-S124** SKU 10102651	**BCDP-M12-P11F3.0-S124** SKU 10102655
PNP N.C	**BCDS-M12-P21F3.0-PC2** SKU 10102644	**BCDP-M12-P21F3.0-PC2** SKU 10102648	**BCDS-M12-P21F3.0-S124** SKU 10102652	**BCDP-M12-P21F3.0-S124** SKU 10102656

TECHNICAL DATA

Sensing distance	3mm
Switching frequency	100Hz
Operating voltage	10...30VDC
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	①: Brass, nickel-plated ②: PBT ③: Brass, nickel-plated ④: PBT
Connection	①: 2m PVC Cable, 3*0.35mm² ②: 2m PVC Cable, 3*0.35mm² ③: 2m PVC Cable, 3*0.35mm² ④: Connector
Accessories	①: None ②: None ③: None ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

M12 Cylindrical Capacitive Proximity Sensor

BCDS-M12-N11N6.0-PC2 series · Sensing Distance: 6mm(Non-Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **6mm(Non-Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **100Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **M12*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Potentiometer for sensitivity adjustment
- Detecting non-metals
- Detection of non-metallic objects depends on the dielectric constant of the object

MODEL CODES

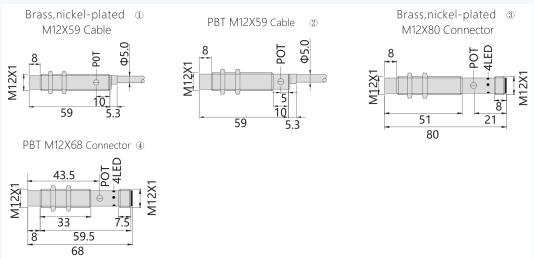
Output Type	①	②	③	④
NPN N.O	BCDS-M12-N11N6.0-PC2 SKU 10102657	BCDP-M12-N11N6.0-PC2 SKU 10102661	BCDS-M12-N11N6.0-S124 SKU 10102665	BCDP-M12-N11N6.0-S124 SKU 10102669
NPN N.C	BCDS-M12-N21N6.0-PC2 SKU 10102658	BCDP-M12-N21N6.0-PC2 SKU 10102662	BCDS-M12-N21N6.0-S124 SKU 10102666	BCDP-M12-N21N6.0-S124 SKU 10102670
PNP N.O	BCDS-M12-P11N6.0-PC2 SKU 10102659	BCDP-M12-P11N6.0-PC2 SKU 10102663	BCDS-M12-P11N6.0-S124 SKU 10102667	BCDP-M12-P11N6.0-S124 SKU 10102671
PNP N.C	BCDS-M12-P21N6.0-PC2 SKU 10102660	BCDP-M12-P21N6.0-PC2 SKU 10102664	BCDS-M12-P21N6.0-S124 SKU 10102668	BCDP-M12-P21N6.0-S124 SKU 10102672

TECHNICAL DATA

Exterior structure	M12*1mm
Sensing distance	6mm(Non-Flush)
Switching frequency	100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2VDC
Load current	200mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<5.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C

Ingress protection	IP67
Housing material	①: Brass, nickel-plated ②: PBT ③: Brass, nickel-plated ④: PBT
Sensing face material	PBT
Connection	①: 2m PVC Cable, 3*0.35mm² ②: 2m PVC Cable, 3*0.35mm² ③: M12 Connector ④: M12 Connector
Accessories	①: None ②: None ③: M12 4 pin cable with connector ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

M18 Cylindrical Capacitive Proximity Sensor

BCDS-M18-N11F5.0-PC2 series · Sensing Distance: 5mm(Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



① ②

KEY SPECIFICATIONS

SENSING DISTANCE **5mm(Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **100Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **M18*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Potentiometer for sensitivity adjustment
- Detecting non-metals
- Detection of non-metallic objects depends on the dielectric constant of the object

MODEL CODES

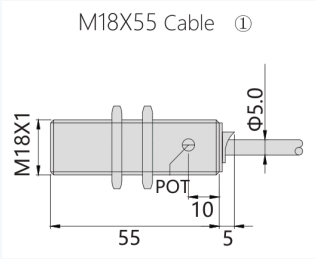
Output Type	①	②
NPN N.O	**BCDS-M18-N11F5.0-PC2** SKU 10102673	**BCDP-M18-N11F5.0-PC2** SKU 10102677
NPN N.C	**BCDS-M18-N21F5.0-PC2** SKU 10102674	**BCDP-M18-N21F5.0-PC2** SKU 10102678
PNP N.O	**BCDS-M18-P11F5.0-PC2** SKU 10102675	**BCDP-M18-P11F5.0-PC2** SKU 10102679
PNP N.C	**BCDS-M18-P21F5.0-PC2** SKU 10102676	**BCDP-M18-P21F5.0-PC2** SKU 10102680

TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	5mm(Flush)
Switching frequency	100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2VDC
Load current	200mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<5.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	①: Brass, nickel-plated ②: PBT
Sensing face material	PBT
Connection	2m PVC Cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

M18 Cylindrical Capacitive Proximity Sensor

BCDS-M18-A14F8.0-PC2 series · Sensing Distance: 8mm(Flush) · Switching Freq.: 25Hz/25Hz AC,40Hz DC

IP67
Ingress Protection



①



②

KEY SPECIFICATIONS

SENSING DISTANCE **8mm(Flush)**	SWITCHING FREQ. **25Hz/25Hz AC,40Hz DC**
AMBIENT TEMP. **-25...70°C**	HOUSING **M18*1mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Potentiometer for sensitivity adjustment
- Detecting non-metals
- Detection of non-metallic objects depends on the dielectric constant of the object

MODEL CODES

Output Type	①	②
AC type — 20...250V AC · 25Hz		
N.O	**BCDS-M18-A14F8.0-PC2** SKU 10102785	**BCDP-M18-A14F8.0-PC2** SKU 10102789
N.C	**BCDS-M18-A24F8.0-PC2** SKU 10102786	**BCDP-M18-A24F8.0-PC2** SKU 10102790
AC/DC type — 20...250V AC/DC · 25Hz AC,40Hz DC		
N.O	**BCDS-M18-U15F8.0-PC2** SKU 10102787	**BCDP-M18-U15F8.0-PC2** SKU 10102791
N.C	**BCDS-M18-U25F8.0-PC2** SKU 10102788	**BCDP-M18-U25F8.0-PC2** SKU 10102792

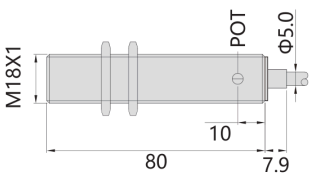
TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	8mm(Flush)
Switching frequency	AC: 25Hz · AC/DC: 25Hz AC,40Hz DC
Operating voltage	AC: 20...250V AC · AC/DC: 20...250V AC/DC
Voltage drop	<9V AC(300mA)/<10V AC,<8V DC
Load current	Max.load: 300mA; min.Load: 5mA Max.load: 200mA; min.Load: 5mA
Residual signal	<2.5mA
Hysteresis	<15%(Sr)
Repeatability	<5.0%(Sr)

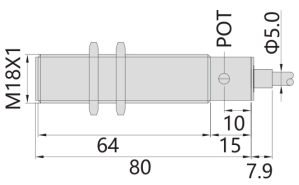
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	①: Brass, nickel-plated ②: PBT
Sensing face material	PBT
Connection	2m PVC Cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS

Brass,nickel-plated ①
M18X80 Cable



PBT M18X80 Cable ②



All dimensions in mm.

M18 Cylindrical Capacitive Proximity Sensor

BCDS-M18-A14F8.0-S124 series · Sensing Distance: 8mm(Flush) · Switching Freq.: 25Hz/25Hz AC,40Hz DC

IP67
Ingress Protection



① ②

KEY SPECIFICATIONS

SENSING DISTANCE **8mm(Flush)**	SWITCHING FREQ. **25Hz/25Hz AC,40Hz DC**
AMBIENT TEMP. **-25...70°C**	HOUSING **M18*1mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Potentiometer for sensitivity adjustment
- Detecting non-metals
- Detection of non-metallic objects depends on the dielectric constant of the object

MODEL CODES

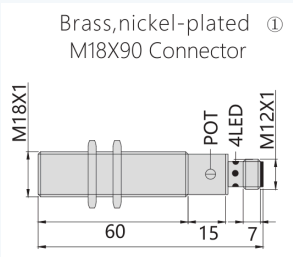
Output Type	①	②
AC type — 20...250V AC · 25Hz		
N.O	**BCDS-M18-A14F8.0-S124** SKU 10102793	**BCDP-M18-A14F8.0-S124** SKU 10102797
N.C	**BCDS-M18-A24F8.0-S124** SKU 10102794	**BCDP-M18-A24F8.0-S124** SKU 10102798
AC/DC type — 20...250V AC/DC · 25Hz AC,40Hz DC		
N.O	**BCDS-M18-U15F8.0-S124** SKU 10102795	**BCDP-M18-U15F8.0-S124** SKU 10102799
N.C	**BCDS-M18-U25F8.0-S124** SKU 10102796	**BCDP-M18-U25F8.0-S124** SKU 10102800

TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	8mm(Flush)
Switching frequency	AC: 25Hz · AC/DC: 25Hz AC,40Hz DC
Operating voltage	AC: 20...250V AC · AC/DC: 20...250V AC/DC
Voltage drop	<9V AC(300mA)/<10V AC,<8V DC
Load current	Max.load: 300mA; min.Load: 5mA Max.load: 200mA; min.Load: 5mA
Residual signal	<2.5mA
Hysteresis	<15%(Sr)
Repeatability	<5.0%(Sr)

Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	①: Brass, nickel-plated ②: PBT
Sensing face material	PBT
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

M18 Cylindrical Capacitive Proximity Sensor

BCDS-M18-N11F8.0-PC2 series · Sensing Distance: 8mm(Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



①



②

KEY SPECIFICATIONS

SENSING DISTANCE **8mm(Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **100Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **M18*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Potentiometer for sensitivity adjustment
- Detecting non-metals
- Detection of non-metallic objects depends on the dielectric constant of the object

MODEL CODES

Output Type	①	②
NPN N.O	**BCDS-M18-N11F8.0-PC2** SKU 10102689	**BCDP-M18-N11F8.0-PC2** SKU 10102693
NPN N.C	**BCDS-M18-N21F8.0-PC2** SKU 10102690	**BCDP-M18-N21F8.0-PC2** SKU 10102694
PNP N.O	**BCDS-M18-P11F8.0-PC2** SKU 10102691	**BCDP-M18-P11F8.0-PC2** SKU 10102695
PNP N.C	**BCDS-M18-P21F8.0-PC2** SKU 10102692	**BCDP-M18-P21F8.0-PC2** SKU 10102696

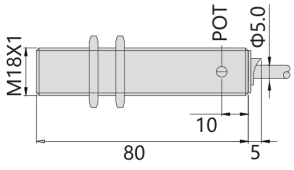
TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	8mm(Flush)
Switching frequency	100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2VDC
Load current	200mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<5.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

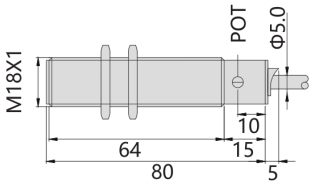
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	①: Brass, nickel-plated ②: PBT
Sensing face material	PBT
Connection	2m PVC Cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS

Brass,nickel-plated ①
M18X80 Cable



PBT M18X80 Cable ②



All dimensions in mm.

M18 Cylindrical Capacitive Proximity Sensor

BCDS-M18-N11F8.0-S124 series · Sensing Distance: 8mm(Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



①



②

KEY SPECIFICATIONS

SENSING DISTANCE **8mm(Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **100Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **M18*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Potentiometer for sensitivity adjustment
- Detecting non-metals
- Detection of non-metallic objects depends on the dielectric constant of the object

MODEL CODES

Output Type	①	②
NPN N.O	**BCDS-M18-N11F8.0-S124** SKU 10102697	**BCDP-M18-N11F8.0-S124** SKU 10102701
NPN N.C	**BCDS-M18-N21F8.0-S124** SKU 10102698	**BCDP-M18-N21F8.0-S124** SKU 10102702
PNP N.O	**BCDS-M18-P11F8.0-S124** SKU 10102699	**BCDP-M18-P11F8.0-S124** SKU 10102703
PNP N.C	**BCDS-M18-P21F8.0-S124** SKU 10102700	**BCDP-M18-P21F8.0-S124** SKU 10102704

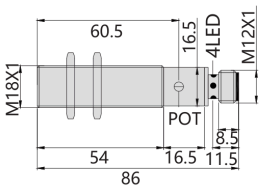
TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	8mm(Flush)
Switching frequency	100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2VDC
Load current	200mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<5.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

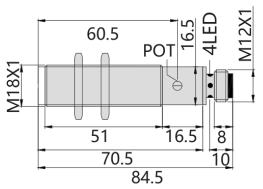
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	①: Brass, nickel-plated ②: PBT
Sensing face material	PBT
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

Brass,nickel-plated ①
M18X86 Connector



PBT M18X84.5 Connector ②



All dimensions in mm.

M18 Cylindrical Capacitive Proximity Sensor

BCDS-M18-N11N8.0-PC2 series · Sensing Distance: 8mm(Non-Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



①



②

KEY SPECIFICATIONS

SENSING DISTANCE **8mm(Non-Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **100Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **M18*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Potentiometer for sensitivity adjustment
- Detecting non-metals
- Detection of non-metallic objects depends on the dielectric constant of the object

MODEL CODES

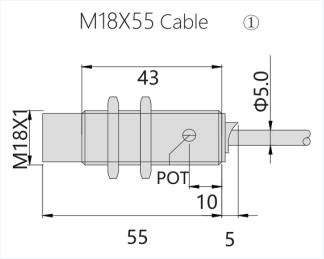
Output Type	①	②
NPN N.O	**BCDS-M18-N11N8.0-PC2** SKU 10102681	**BCDP-M18-N11N8.0-PC2** SKU 10102685
NPN N.C	**BCDS-M18-N21N8.0-PC2** SKU 10102682	**BCDP-M18-N21N8.0-PC2** SKU 10102686
PNP N.O	**BCDS-M18-P11N8.0-PC2** SKU 10102683	**BCDP-M18-P11N8.0-PC2** SKU 10102687
PNP N.C	**BCDS-M18-P21N8.0-PC2** SKU 10102684	**BCDP-M18-P21N8.0-PC2** SKU 10102688

TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	8mm(Non-Flush)
Switching frequency	100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2VDC
Load current	200mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<5.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	①: Brass, nickel-plated ②: PBT
Sensing face material	PBT
Connection	2m PVC Cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

M18 Cylindrical Capacitive Proximity Sensor

BCDS-M18-A14N15-PC2 series · Sensing Distance: 15mm(Non-Flush) · Switching Freq.: 25Hz/25Hz AC,40Hz DC

IP67
Ingress Protection



①



②

KEY SPECIFICATIONS

SENSING DISTANCE **15mm(Non-Flush)**	SWITCHING FREQ. **25Hz/25Hz AC,40Hz DC**
AMBIENT TEMP. **-25...70°C**	HOUSING **M18*1mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Potentiometer for sensitivity adjustment
- Detecting non-metals
- Detection of non-metallic objects depends on the dielectric constant of the object

MODEL CODES

Output Type	①	②
AC type — 20...250V AC · 25Hz		
N.O	**BCDS-M18-A14N15-PC2** SKU 10102801	**BCDP-M18-A14N15-PC2** SKU 10102805
N.C	**BCDS-M18-A24N15-PC2** SKU 10102802	**BCDP-M18-A24N15-PC2** SKU 10102806
AC/DC type — 20...250V AC/DC · 25Hz AC,40Hz DC		
N.O	**BCDS-M18-U15N15-PC2** SKU 10102803	**BCDP-M18-U15N15-PC2** SKU 10102807
N.C	**BCDS-M18-U25N15-PC2** SKU 10102804	**BCDP-M18-U25N15-PC2** SKU 10102808

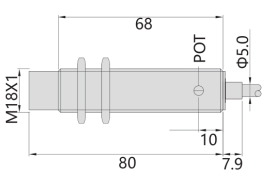
TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	15mm(Non-Flush)
Switching frequency	AC: 25Hz · AC/DC: 25Hz AC,40Hz DC
Operating voltage	AC: 20...250V AC · AC/DC: 20...250V AC/DC
Voltage drop	<9V AC(300mA)/<10V AC,<8V DC
Load current	Max.load: 300mA; min.Load: 5mA Max.load: 200mA; min.Load: 5mA
Residual signal	<2.5mA
Hysteresis	<15%(Sr)
Repeatability	<5.0%(Sr)

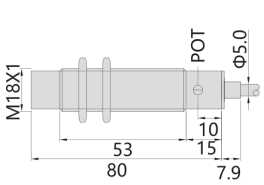
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	①: Brass, nickel-plated ②: PBT
Sensing face material	PBT
Connection	2m PVC Cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS

Brass,nickel-plated ①
M18X80 Cable



PBT M18X80 Cable ②



All dimensions in mm.

M18 Cylindrical Capacitive Proximity Sensor

BCDS-M18-A14N15-S124 series · Sensing Distance: 15mm(Non-Flush) · Switching Freq.: 25Hz/25Hz AC,40Hz DC

IP67
Ingress Protection



①



②

KEY SPECIFICATIONS

SENSING DISTANCE **15mm(Non-Flush)**	SWITCHING FREQ. **25Hz/25Hz AC,40Hz DC**
AMBIENT TEMP. **-25...70°C**	HOUSING **M18*1mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Potentiometer for sensitivity adjustment
- Detecting non-metals
- Detection of non-metallic objects depends on the dielectric constant of the object

MODEL CODES

Output Type	①	②
AC type — 20...250V AC · 25Hz		
N.O	**BCDS-M18-A14N15-S124** SKU 10102809	**BCDP-M18-A14N15-S124** SKU 10102813
N.C	**BCDS-M18-A24N15-S124** SKU 10102810	**BCDP-M18-A24N15-S124** SKU 10102814
AC/DC type — 20...250V AC/DC · 25Hz AC,40Hz DC		
N.O	**BCDS-M18-U15N15-S124** SKU 10102811	**BCDP-M18-U15N15-S124** SKU 10102815
N.C	**BCDS-M18-U25N15-S124** SKU 10102812	**BCDP-M18-U25N15-S124** SKU 10102816

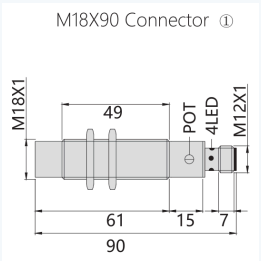
TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	15mm(Non-Flush)
Switching frequency	AC: 25Hz · AC/DC: 25Hz AC,40Hz DC
Operating voltage	AC: 20...250V AC · AC/DC: 20...250V AC/DC
Voltage drop	<9V AC(300mA)/<10V AC,<8V DC
Load current	Max.load: 300mA; min.Load: 5mA
Residual signal	<2.5mA
Hysteresis	<15%(Sr)
Repeatability	<5.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	①: Brass, nickel-plated ②: PBT
Sensing face material	PBT
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

M18X90 Connector ①



All dimensions in mm.

M18 Cylindrical Capacitive Proximity Sensor

BCDS-M18-N11N15-PC2 series · Sensing Distance: 15mm(Non-Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



①



②

KEY SPECIFICATIONS

SENSING DISTANCE **15mm(Non-Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **100Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **M18*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Potentiometer for sensitivity adjustment
- Detecting non-metals
- Detection of non-metallic objects depends on the dielectric constant of the object

MODEL CODES

Output Type	①	②
NPN N.O	**BCDS-M18-N11N15-PC2** SKU 10102705	**BCDP-M18-N11N15-PC2** SKU 10102709
NPN N.C	**BCDS-M18-N21N15-PC2** SKU 10102706	**BCDP-M18-N21N15-PC2** SKU 10102710
PNP N.O	**BCDS-M18-P11N15-PC2** SKU 10102707	**BCDP-M18-P11N15-PC2** SKU 10102711
PNP N.C	**BCDS-M18-P21N15-PC2** SKU 10102708	**BCDP-M18-P21N15-PC2** SKU 10102712

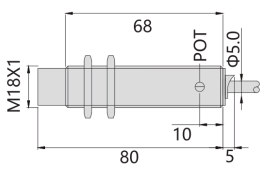
TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	15mm(Non-Flush)
Switching frequency	100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2VDC
Load current	200mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<5.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

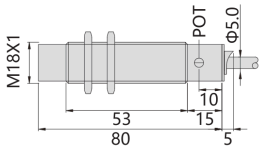
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	①: Brass, nickel-plated ②: PBT
Sensing face material	PBT
Connection	2m PVC Cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS

Brass,nickel-plated ①
M18X80 Cable



PBT M18X80 Cable ②



All dimensions in mm.

M18 Cylindrical Capacitive Proximity Sensor

BCDS-M18-N11N15-S124 series · Sensing Distance: 15mm(Non-Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



①



②

KEY SPECIFICATIONS

SENSING DISTANCE **15mm(Non-Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **100Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **M18*1mm**	INGRESS PROTECTION **IP67**

FEATURES

- Potentiometer for sensitivity adjustment
- Detecting non-metals
- Detection of non-metallic objects depends on the dielectric constant of the object

MODEL CODES

Output Type	①	②
NPN N.O	**BCDS-M18-N11N15-S124** SKU 10102713	**BCDP-M18-N11N15-S124** SKU 10102717
NPN N.C	**BCDS-M18-N21N15-S124** SKU 10102714	**BCDP-M18-N21N15-S124** SKU 10102718
PNP N.O	**BCDS-M18-P11N15-S124** SKU 10102715	**BCDP-M18-P11N15-S124** SKU 10102719
PNP N.C	**BCDS-M18-P21N15-S124** SKU 10102716	**BCDP-M18-P21N15-S124** SKU 10102720

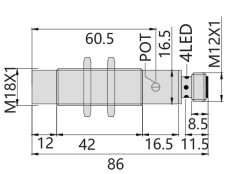
TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	15mm(Non-Flush)
Switching frequency	100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2VDC
Load current	200mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<5.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

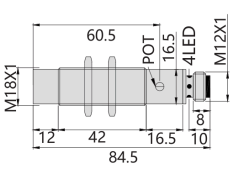
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	①: Brass, nickel-plated ②: PBT
Sensing face material	PBT
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

Brass,nickel-plated ①
M18X86 Connector



PBT M18X84.5 Connector ②



All dimensions in mm.

CAPACITIVE

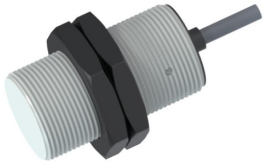
M30 Cylindrical Capacitive Proximity Sensor

BCDS-M30-N11F10-PC2 series · Sensing Distance: 10mm(Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



①



②

KEY SPECIFICATIONS

SENSING DISTANCE **10mm(Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **100Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **M30*1.5mm**	INGRESS PROTECTION **IP67**

FEATURES

- Potentiometer for sensitivity adjustment
- Detecting non-metals
- Detection of non-metallic objects depends on the dielectric constant of the object

MODEL CODES

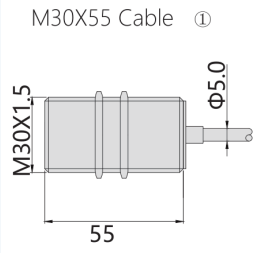
Output Type	①	②
NPN N.O	**BCDS-M30-N11F10-PC2** SKU 10102721	**BCDP-M30-N11F10-PC2** SKU 10102725
NPN N.C	**BCDS-M30-N21F10-PC2** SKU 10102722	**BCDP-M30-N21F10-PC2** SKU 10102726
PNP N.O	**BCDS-M30-P11F10-PC2** SKU 10102723	**BCDP-M30-P11F10-PC2** SKU 10102727
PNP N.C	**BCDS-M30-P21F10-PC2** SKU 10102724	**BCDP-M30-P21F10-PC2** SKU 10102728

TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	10mm(Flush)
Switching frequency	100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2VDC
Load current	200mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<5.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	①: Brass, nickel-plated ②: PBT
Sensing face material	PBT
Connection	2m PVC Cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS

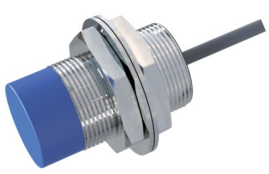


All dimensions in mm.

M30 Cylindrical Capacitive Proximity Sensor

BCDS-M30-N11N15-PC2 series · Sensing Distance: 15mm(Non-Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



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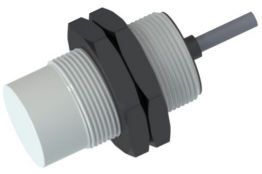


②

KEY SPECIFICATIONS

SENSING DISTANCE **15mm(Non-Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **100Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **M30*1.5mm**	INGRESS PROTECTION **IP67**

FEATURES

- Potentiometer for sensitivity adjustment
- Detecting non-metals
- Detection of non-metallic objects depends on the dielectric constant of the object

MODEL CODES

Output Type	①	②
NPN N.O	**BCDS-M30-N11N15-PC2** SKU 10102729	**BCDP-M30-N11N15-PC2** SKU 10102733
NPN N.C	**BCDS-M30-N21N15-PC2** SKU 10102730	**BCDP-M30-N21N15-PC2** SKU 10102734
PNP N.O	**BCDS-M30-P11N15-PC2** SKU 10102731	**BCDP-M30-P11N15-PC2** SKU 10102735
PNP N.C	**BCDS-M30-P21N15-PC2** SKU 10102732	**BCDP-M30-P21N15-PC2** SKU 10102736

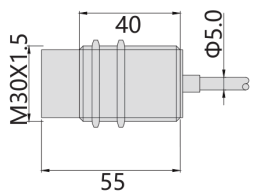
TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	15mm(Non-Flush)
Switching frequency	100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2VDC
Load current	200mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<5.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	①: Brass, nickel-plated ②: PBT
Sensing face material	PBT
Connection	2m PVC Cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS

M30X55 Cable ①



All dimensions in mm.

M30 Cylindrical Capacitive Proximity Sensor

BCDS-M30-A14F20-PC2 series · Sensing Distance: 20mm(Flush) · Switching Freq.: 25Hz/25Hz AC,40Hz DC

IP67
Ingress Protection



①



②

KEY SPECIFICATIONS

SENSING DISTANCE **20mm(Flush)**	SWITCHING FREQ. **25Hz/25Hz AC,40Hz DC**
AMBIENT TEMP. **-25...70°C**	HOUSING **M30*1.5mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Potentiometer for sensitivity adjustment
- Detecting non-metals
- Detection of non-metallic objects depends on the dielectric constant of the object

MODEL CODES

Output Type	①	②
AC type — 20...250V AC · 25Hz		
N.O	**BCDS-M30-A14F20-PC2** SKU 10102817	**BCDP-M30-A14F20-PC2** SKU 10102821
N.C	**BCDS-M30-A24F20-PC2** SKU 10102818	**BCDP-M30-A24F20-PC2** SKU 10102822
AC/DC type — 20...250V AC/DC · 25Hz AC,40Hz DC		
N.O	**BCDS-M30-U15F20-PC2** SKU 10102819	**BCDP-M30-U15F20-PC2** SKU 10102823
N.C	**BCDS-M30-U25F20-PC2** SKU 10102820	**BCDP-M30-U25F20-PC2** SKU 10102824

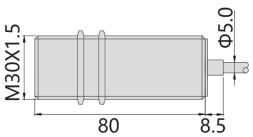
TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	20mm(Flush)
Switching frequency	AC: 25Hz · AC/DC: 25Hz AC,40Hz DC
Operating voltage	AC: 20...250V AC · AC/DC: 20...250V AC/DC
Voltage drop	<9V AC(300mA)/<10V AC,<8V DC
Load current	Max.load: 300mA; min.Load: 5mA Max.load: 200mA; min.Load: 5mA
Residual signal	<2.5mA
Hysteresis	<15%(Sr)
Repeatability	<5.0%(Sr)

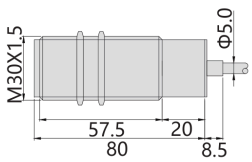
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	①: Brass, nickel-plated ②: PBT
Sensing face material	PBT
Connection	2m PVC Cable, 2*0.5mm²/3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS

Brass,nickel-plated ①
M30X80 Cable



PBT M30X80 Cable ②



All dimensions in mm.

M30 Cylindrical Capacitive Proximity Sensor

BCDS-M30-A14F20-S124 series · Sensing Distance: 20mm(Flush) · Switching Freq.: 25Hz/25Hz AC,40Hz DC

IP67
Ingress Protection



①



②

KEY SPECIFICATIONS

SENSING DISTANCE **20mm(Flush)**	SWITCHING FREQ. **25Hz/25Hz AC,40Hz DC**
AMBIENT TEMP. **-25...70°C**	HOUSING **M30*1.5mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Potentiometer for sensitivity adjustment
- Detecting non-metals
- Detection of non-metallic objects depends on the dielectric constant of the object

MODEL CODES

Output Type	①	②
AC type — 20...250V AC · 25Hz		
N.O	**BCDS-M30-A14F20-S124** SKU 10102825	**BCDP-M30-A14F20-S124** SKU 10102829
N.C	**BCDS-M30-A24F20-S124** SKU 10102826	**BCDP-M30-A24F20-S124** SKU 10102830
AC/DC type — 20...250V AC/DC · 25Hz AC,40Hz DC		
N.O	**BCDS-M30-U15F20-S124** SKU 10102827	**BCDP-M30-U15F20-S124** SKU 10102831
N.C	**BCDS-M30-U25F20-S124** SKU 10102828	**BCDP-M30-U25F20-S124** SKU 10102832

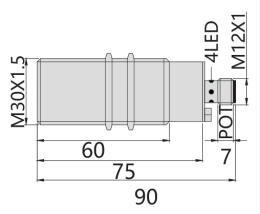
TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	20mm(Flush)
Switching frequency	AC: 25Hz · AC/DC: 25Hz AC,40Hz DC
Operating voltage	AC: 20...250V AC · AC/DC: 20...250V AC/DC
Voltage drop	<9V AC(300mA)/<10V AC,<8V DC
Load current	Max.load: 300mA; min.Load: 5mA
Residual signal	<2.5mA
Hysteresis	<15%(Sr)
Repeatability	<5.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	①: Brass, nickel-plated ②: PBT
Sensing face material	PBT
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

M30X90 Connector ①



All dimensions in mm.

M30 Cylindrical Capacitive Proximity Sensor

BCDS-M30-N11F20-PC2 series · Sensing Distance: 20mm(Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



①



②

KEY SPECIFICATIONS

SENSING DISTANCE **20mm(Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **100Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **M30*1.5mm**	INGRESS PROTECTION **IP67**

FEATURES

- Potentiometer for sensitivity adjustment
- Detecting non-metals
- Detection of non-metallic objects depends on the dielectric constant of the object

MODEL CODES

Output Type	①	②
NPN N.O	**BCDS-M30-N11F20-PC2** SKU 10102737	**BCDP-M30-N11F20-PC2** SKU 10102741
NPN N.C	**BCDS-M30-N21F20-PC2** SKU 10102738	**BCDP-M30-N21F20-PC2** SKU 10102742
PNP N.O	**BCDS-M30-P11F20-PC2** SKU 10102739	**BCDP-M30-P11F20-PC2** SKU 10102743
PNP N.C	**BCDS-M30-P21F20-PC2** SKU 10102740	**BCDP-M30-P21F20-PC2** SKU 10102744

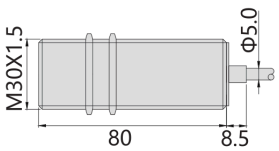
TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	20mm(Flush)
Switching frequency	100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2VDC
Load current	200mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<5.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

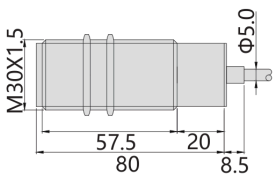
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	①: Brass, nickel-plated ②: PBT
Sensing face material	PBT
Connection	2m PVC Cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS

Brass,nickel-plated M30X80 Cable ①



PBT M30X80 Cable ②

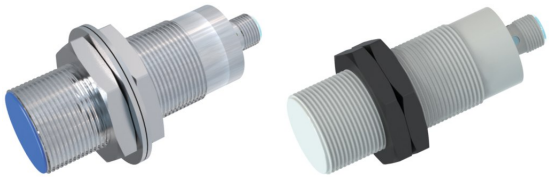


All dimensions in mm.

M30 Cylindrical Capacitive Proximity Sensor

BCDS-M30-N11F20-S124 series · Sensing Distance: 20mm(Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



① ②

KEY SPECIFICATIONS

SENSING DISTANCE **20mm(Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **100Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **M30*1.5mm**	INGRESS PROTECTION **IP67**

FEATURES

- Potentiometer for sensitivity adjustment
- Detecting non-metals
- Detection of non-metallic objects depends on the dielectric constant of the object

MODEL CODES

Output Type	①	②
NPN N.O	**BCDS-M30-N11F20-S124** SKU 10102745	**BCDP-M30-N11F20-S124** SKU 10102749
NPN N.C	**BCDS-M30-N21F20-S124** SKU 10102746	**BCDP-M30-N21F20-S124** SKU 10102750
PNP N.O	**BCDS-M30-P11F20-S124** SKU 10102747	**BCDP-M30-P11F20-S124** SKU 10102751
PNP N.C	**BCDS-M30-P21F20-S124** SKU 10102748	**BCDP-M30-P21F20-S124** SKU 10102752

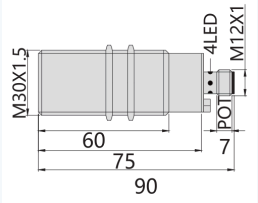
TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	20mm(Flush)
Switching frequency	100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2VDC
Load current	200mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<5.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	①: Brass, nickel-plated ②: PBT
Sensing face material	PBT
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

M30X90 Connector ①



All dimensions in mm.

M30 Cylindrical Capacitive Proximity Sensor

BCDS-M30-A14N30-PC2 series · Sensing Distance: 30mm(Non-Flush) · Switching Freq.: 25Hz/25Hz AC,40Hz DC

IP67
Ingress Protection



①



②

KEY SPECIFICATIONS

SENSING DISTANCE **30mm(Non-Flush)**	SWITCHING FREQ. **25Hz/25Hz AC,40Hz DC**
AMBIENT TEMP. **-25...70°C**	HOUSING **M30*1.5mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Potentiometer for sensitivity adjustment
- Detecting non-metals
- Detection of non-metallic objects depends on the dielectric constant of the object

MODEL CODES

Output Type	①	②
AC type — 20...250V AC · 25Hz		
N.O	**BCDS-M30-A14N30-PC2** SKU 10102833	**BCDP-M30-A14N30-PC2** SKU 10102837
N.C	**BCDS-M30-A24N30-PC2** SKU 10102834	**BCDP-M30-A24N30-PC2** SKU 10102838
AC/DC type — 20...250V AC/DC · 25Hz AC,40Hz DC		
N.O	**BCDS-M30-U15N30-PC2** SKU 10102835	**BCDP-M30-U15N30-PC2** SKU 10102839
N.C	**BCDS-M30-U25N30-PC2** SKU 10102836	**BCDP-M30-U25N30-PC2** SKU 10102840

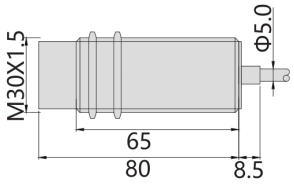
TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	30mm(Non-Flush)
Switching frequency	AC: 25Hz · AC/DC: 25Hz AC,40Hz DC
Operating voltage	AC: 20...250V AC · AC/DC: 20...250V AC/DC
Voltage drop	<9V AC(300mA)/<10V AC,<8V DC
Load current	Max.load: 300mA; min.Load: 5mA Max.load: 200mA; min.Load: 5mA
Residual signal	<2.5mA
Hysteresis	<15%(Sr)
Repeatability	<5.0%(Sr)

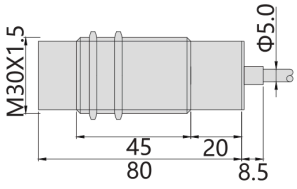
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	①: Brass, nickel-plated ②: PBT
Sensing face material	PBT
Connection	2m PVC Cable, 2*0.5mm²/3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS

Brass,nickel-plated ①
M30X80 Cable



PBT M30X80 Cable ②



All dimensions in mm.

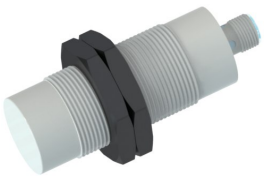
M30 Cylindrical Capacitive Proximity Sensor

BCDS-M30-A14N30-S124 series · Sensing Distance: 30mm(Non-Flush) · Switching Freq.: 25Hz/25Hz AC,40Hz DC

IP67
Ingress Protection



①



②

KEY SPECIFICATIONS

SENSING DISTANCE **30mm(Non-Flush)**	SWITCHING FREQ. **25Hz/25Hz AC,40Hz DC**
AMBIENT TEMP. **-25...70°C**	HOUSING **M30*1.5mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Potentiometer for sensitivity adjustment
- Detecting non-metals
- Detection of non-metallic objects depends on the dielectric constant of the object

MODEL CODES

Output Type	①	②
AC type — 20...250V AC · 25Hz		
N.O	**BCDS-M30-A14N30-S124** SKU 10102841	**BCDP-M30-A14N30-S124** SKU 10102845
N.C	**BCDS-M30-A24N30-S124** SKU 10102842	**BCDP-M30-A24N30-S124** SKU 10102846
AC/DC type — 20...250V AC/DC · 25Hz AC,40Hz DC		
N.O	**BCDS-M30-U15N30-S124** SKU 10102843	**BCDP-M30-U15N30-S124** SKU 10102847
N.C	**BCDS-M30-U25N30-S124** SKU 10102844	**BCDP-M30-U25N30-S124** SKU 10102848

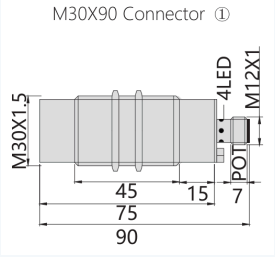
TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	30mm(Non-Flush)
Switching frequency	AC: 25Hz · AC/DC: 25Hz AC,40Hz DC
Operating voltage	AC: 20...250V AC · AC/DC: 20...250V AC/DC
Voltage drop	<9V AC(300mA)/<10V AC,<8V DC
Load current	Max.load: 300mA; min.Load: 5mA
Residual signal	<2.5mA
Hysteresis	<15%(Sr)
Repeatability	<5.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	①: Brass, nickel-plated ②: PBT
Sensing face material	PBT
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

M30X90 Connector ①



All dimensions in mm.

M30 Cylindrical Capacitive Proximity Sensor

BCDS-M30-N11N30-PC2 series · Sensing Distance: 30mm(Non-Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



①



②

KEY SPECIFICATIONS

SENSING DISTANCE **30mm(Non-Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **100Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **M30*1.5mm**	INGRESS PROTECTION **IP67**

FEATURES

- Potentiometer for sensitivity adjustment
- Detecting non-metals
- Detection of non-metallic objects depends on the dielectric constant of the object

MODEL CODES

Output Type	①	②
NPN N.O	**BCDS-M30-N11N30-PC2** SKU 10102753	**BCDP-M30-N11N30-PC2** SKU 10102757
NPN N.C	**BCDS-M30-N21N30-PC2** SKU 10102754	**BCDP-M30-N21N30-PC2** SKU 10102758
PNP N.O	**BCDS-M30-P11N30-PC2** SKU 10102755	**BCDP-M30-P11N30-PC2** SKU 10102759
PNP N.C	**BCDS-M30-P21N30-PC2** SKU 10102756	**BCDP-M30-P21N30-PC2** SKU 10102760

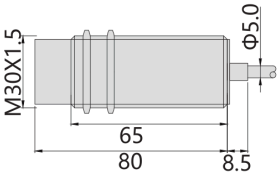
TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	30mm(Non-Flush)
Switching frequency	100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2VDC
Load current	200mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<5.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

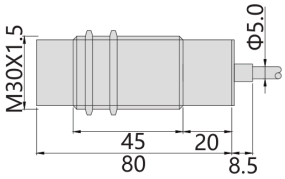
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	①: Brass, nickel-plated ②: PBT
Sensing face material	PBT
Connection	2m PVC Cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS

Brass,nickel-plated M30X80 Cable ①



PBT M30X80 Cable ②



All dimensions in mm.

M30 Cylindrical Capacitive Proximity Sensor

BCDS-M30-N11N30-S124 series · Sensing Distance: 30mm(Non-Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



①



②

KEY SPECIFICATIONS

SENSING DISTANCE **30mm(Non-Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **100Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **M30*1.5mm**	INGRESS PROTECTION **IP67**

FEATURES

- Potentiometer for sensitivity adjustment
- Detecting non-metals
- Detection of non-metallic objects depends on the dielectric constant of the object

MODEL CODES

Output Type	①	②
NPN N.O	**BCDS-M30-N11N30-S124** SKU 10102761	**BCDP-M30-N11N30-S124** SKU 10102765
NPN N.C	**BCDS-M30-N21N30-S124** SKU 10102762	**BCDP-M30-N21N30-S124** SKU 10102766
PNP N.O	**BCDS-M30-P11N30-S124** SKU 10102763	**BCDP-M30-P11N30-S124** SKU 10102767
PNP N.C	**BCDS-M30-P21N30-S124** SKU 10102764	**BCDP-M30-P21N30-S124** SKU 10102768

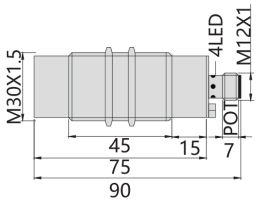
TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	30mm(Non-Flush)
Switching frequency	100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2VDC
Load current	200mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<5.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	①: Brass, nickel-plated ②: PBT
Sensing face material	PBT
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

M30X90 Connector ①



All dimensions in mm.

Φ34 Cylindrical Capacitive Proximity Sensor

BCDP-Q34-A14F25-A24F25-U15F25-U25F25-PC2-Z124 series · Sensing Distance: 25mm(Flush) · Switching Freq.: 25Hz/25Hz AC,40Hz DC

IP67
Ingress Protection



①



②

KEY SPECIFICATIONS

SENSING DISTANCE **25mm(Flush)**	SWITCHING FREQ. **25Hz/25Hz AC,40Hz DC**
AMBIENT TEMP. **-25...70°C**	HOUSING **Φ34mm**
INGRESS PROTECTION **IP67**	

FEATURES

- Potentiometer for sensitivity adjustment
- Detecting non-metals
- Detection of non-metallic objects depends on the dielectric constant of the object

MODEL CODES

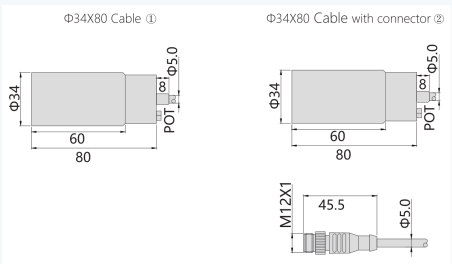
Output Type	①	②
AC type — 20...250V AC · 25Hz		
N.O	**BCDP-Q34-A14F25-PC2** SKU 10102849	**BCDP-Q34-A14F25-Z124** SKU 10102853
N.C	**BCDP-Q34-A24F25-PC2** SKU 10102850	**BCDP-Q34-A24F25-Z124** SKU 10102854
AC/DC type — 20...250V AC/DC · 25Hz AC,40Hz DC		
N.O	**BCDP-Q34-U15F25-PC2** SKU 10102851	**BCDP-Q34-U15F25-Z124** SKU 10102855
N.C	**BCDP-Q34-U25F25-PC2** SKU 10102852	**BCDP-Q34-U25F25-Z124** SKU 10102856

TECHNICAL DATA

Exterior structure	Φ34mm
Sensing distance	25mm(Flush)
Switching frequency	AC: 25Hz · AC/DC: 25Hz AC,40Hz DC
Operating voltage	AC: 20...250V AC · AC/DC: 20...250V AC/DC
Voltage drop	<9V AC(300mA)/<10V AC,<8V DC
Load current	Max.load: 300mA; min.Load: 5mA Max.load: 200mA; min.Load: 5mA
Residual signal	<2.5mA
Hysteresis	<15%(Sr)
Repeatability	<5.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	PBT
Sensing face material	PBT
Connection	①: 2m PVC Cable, 2*0.5mm² ②: M12, 0.3m Cable with connector
Accessories	①: None ②: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

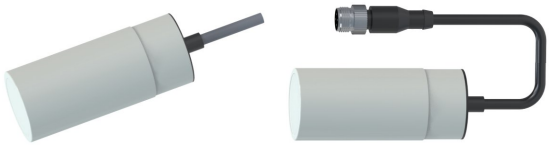


All dimensions in mm.

Φ34 Cylindrical Capacitive Proximity Sensor

BCDP-Q34-F25-PC2-Z124 series · Sensing Distance: 25mm(Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



① ②

KEY SPECIFICATIONS

SENSING DISTANCE **25mm(Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **100Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **Φ34mm**	INGRESS PROTECTION **IP67**

FEATURES

- Potentiometer for sensitivity adjustment
- Detecting non-metals
- Detection of non-metallic objects depends on the dielectric constant of the object

MODEL CODES

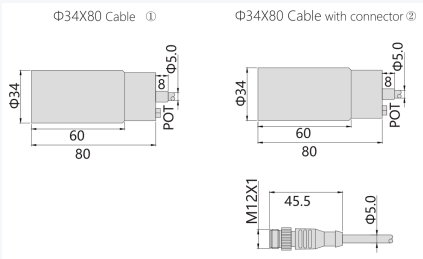
Output Type	①	②
NPN N.O	**BCDP-Q34-N11F25-PC2** SKU 10102769	**BCDP-Q34-N11F25-Z124** SKU 10102773
NPN N.C	**BCDP-Q34-N21F25-PC2** SKU 10102770	**BCDP-Q34-N21F25-Z124** SKU 10102774
PNP N.O	**BCDP-Q34-P11F25-PC2** SKU 10102771	**BCDP-Q34-P11F25-Z124** SKU 10102775
PNP N.C	**BCDP-Q34-P21F25-PC2** SKU 10102772	**BCDP-Q34-P21F25-Z124** SKU 10102776

TECHNICAL DATA

Exterior structure	Φ34mm
Sensing distance	25mm(Flush)
Switching frequency	100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2VDC
Load current	200mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<5.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	PBT
Sensing face material	PBT
Connection	①: 2m PVC Cable, 3*0.35mm² ②: M12, 0.3m Cable with connector
Accessories	①: None ②: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

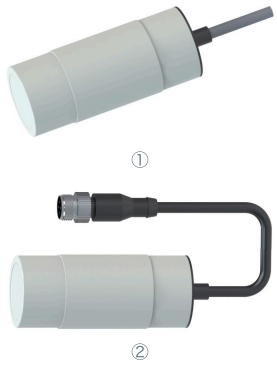


All dimensions in mm.

Φ34 Cylindrical Capacitive Proximity Sensor

BCDP-Q34-A14N35-A24N35-U15N35-U25N35-PC2-Z124 series · Sensing Distance: 35mm(Non-Flush) · Switching Freq.: 25Hz/25Hz AC,40Hz DC

IP67
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE 35mm(Non-Flush)	SWITCHING FREQ. 25Hz/25Hz AC,40Hz DC
AMBIENT TEMP. -25...70°C	HOUSING Φ34mm
INGRESS PROTECTION IP67	

FEATURES

- Potentiometer for sensitivity adjustment
- Detecting non-metals
- Detection of non-metallic objects depends on the dielectric constant of the object

MODEL CODES

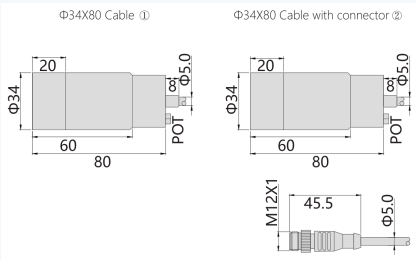
Output Type	①	②
AC type — 20...250V AC · 25Hz		
N.O	BCDP-Q34-A14N35-PC2 SKU 10102857	BCDP-Q34-A14N35-Z124 SKU 10102861
N.C	BCDP-Q34-A24N35-PC2 SKU 10102858	BCDP-Q34-A24N35-Z124 SKU 10102862
AC/DC type — 20...250V AC/DC · 25Hz AC,40Hz DC		
N.O	BCDP-Q34-U15N35-PC2 SKU 10102859	BCDP-Q34-U15N35-Z124 SKU 10102863
N.C	BCDP-Q34-U25N35-PC2 SKU 10102860	BCDP-Q34-U25N35-Z124 SKU 10102864

TECHNICAL DATA

Exterior structure	Φ34mm
Sensing distance	35mm(Non-Flush)
Switching frequency	AC: 25Hz · AC/DC: 25Hz AC,40Hz DC
Operating voltage	AC: 20...250V AC · AC/DC: 20...250V AC/DC
Voltage drop	<9V AC(300mA)/<10V AC,<8V DC
Load current	Max.load: 300mA; min.Load: 5mA
Residual signal	<2.5mA
Hysteresis	<15%(Sr)
Repeatability	<5.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	PBT
Sensing face material	PBT
Connection	①: 2m PVC Cable, 2*0.5mm² ②: M12, 0.3m Cable with connector
Accessories	①: None ②: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

Φ34 Cylindrical Capacitive Proximity Sensor

BCDP-Q34-N35-PC2 series · Sensing Distance: 35mm(Non-Flush) · Operating Voltage: 10...30VDC(±10%)

IP67
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **35mm(Non-Flush)**	OPERATING VOLTAGE **10...30VDC(±10%)**
SWITCHING FREQ. **100Hz**	AMBIENT TEMP. **-25...70°C**
HOUSING **Φ34mm**	INGRESS PROTECTION **IP67**

FEATURES

- Potentiometer for sensitivity adjustment
- Detecting non-metals
- Detection of non-metallic objects depends on the dielectric constant of the object

MODEL CODES

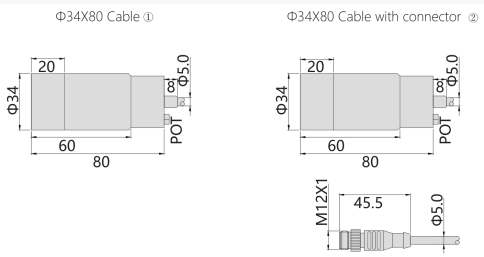
Output Type	Model Code
NPN N.O	**BCDP-Q34-N11N35-PC2** SKU 10102777
NPN N.C	**BCDP-Q34-N21N35-PC2** SKU 10102778
PNP N.O	**BCDP-Q34-P11N35-PC2** SKU 10102779
PNP N.C	**BCDP-Q34-P21N35-PC2** SKU 10102780

TECHNICAL DATA

Exterior structure	Φ34mm
Sensing distance	35mm(Non-Flush)
Switching frequency	100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2VDC
Load current	200mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<5.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP67
Housing material	PBT
Sensing face material	PBT
Connection	2m PVC Cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

Q18 / Q30 / Q34 Rectangular Capacitive Proximity Sensor

BCDP-R18-F6.0-N10-N4.0-PC2 series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 100Hz

IP65
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **100Hz**
AMBIENT TEMP. **-25...70°C**	INGRESS PROTECTION **IP65**

FEATURES

- Potentiometer for sensitivity adjustment
- Detecting non-metals
- Detection of non-metallic objects depends on the dielectric constant of the object

MODEL CODES

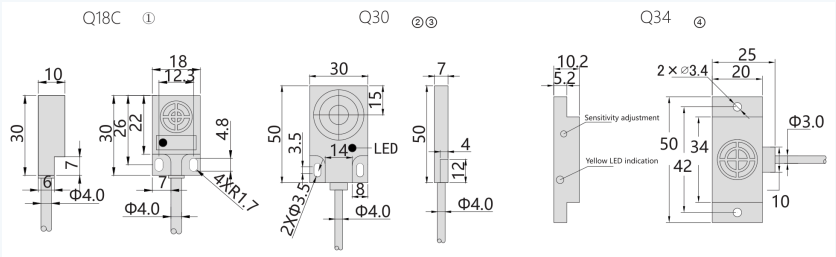
Output Type	①	②	③	④
NPN N.O	BCDP-R18-N11N4.0-PC2 SKU 10102877	BCDP-R30-N11F6.0-PC2 SKU 10102881	BCDP-R30-N11N10-PC2 SKU 10102885	BCDP-R34-N11N10-PC2 SKU 10102889
NPN N.C	BCDP-R18-N21N4.0-PC2 SKU 10102878	BCDP-R30-N21F6.0-PC2 SKU 10102882	BCDP-R30-N21N10-PC2 SKU 10102886	BCDP-R34-N21N10-PC2 SKU 10102890
PNP N.O	BCDP-R18-P11N4.0-PC2 SKU 10102879	BCDP-R30-P11F6.0-PC2 SKU 10102883	BCDP-R30-P11N10-PC2 SKU 10102887	BCDP-R34-P11N10-PC2 SKU 10102891
PNP N.C	BCDP-R18-P21N4.0-PC2 SKU 10102880	BCDP-R30-P21F6.0-PC2 SKU 10102884	BCDP-R30-P21N10-PC2 SKU 10102888	BCDP-R34-P21N10-PC2 SKU 10102892

TECHNICAL DATA

Size	①: 30*18*10mm ②: 50*30*7mm ③: 50*30*7mm ④: 50X20X10.2mm
Sensing distance	①: 4mm(Non-Flush) ②: 6mm(Flush) ③: 10mm(Non-Flush) ④: 10mm(Non-Flush)
Switching frequency	100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	①: ≤2.5VDC ②: ≤2VDC ③: ≤2VDC ④: ≤2VDC
Load current	①: ≤200mA ②: ≤200mA ③: ≤200mA ④: ≤100mA
No-load current	≤10mA(24V)
Hysteresis	<15%(Sr)

Repeatability	<5.0%(Sr)
Sensitivity adjustment	Multi-loop potentiometer
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP65
Housing material	①: ABS ②: PBT ③: PBT ④: ABS
Sensing face material	①: ABS ②: PBT ③: PBT ④: ABS
Connection	2m PVC Cable,3*0.25mm²
Accessories	None

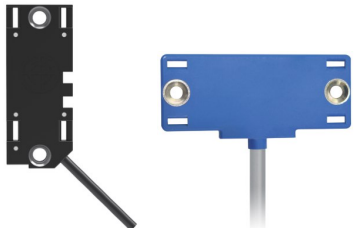
DIMENSIONAL DRAWINGS



All dimensions in mm.

Q20 / Q25 Rectangular Capacitive Proximity Sensor

BCDP-R20-N10-N5.0-PC2 series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 100Hz



① ②③

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **100Hz**
VOLTAGE DROP **≤2VDC**	LOAD CURRENT **≤200mA / ≤150mA**

FEATURES

- Potentiometer for sensitivity adjustment
- Detecting non-metals
- Detection of non-metallic objects depends on the dielectric constant of the object

MODEL CODES

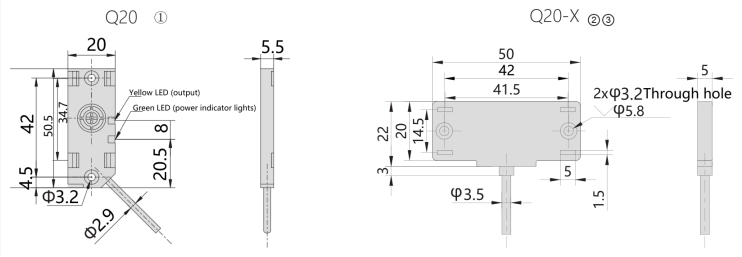
Output Type	①	②	③
NPN N.O	**BCDP-R20-N11N10-PC2** SKU 10102865	**BCDP-R20-N11N5.0-PC2** SKU 10102893	**BCDP-R20-N11N10-PC2** SKU 10102897
NPN N.C	**BCDP-R20-N21N10-PC2** SKU 10102866	**BCDP-R20-N21N5.0-PC2** SKU 10102894	**BCDP-R20-N21N10-PC2** SKU 10102898
PNP N.O	**BCDP-R20-P11N10-PC2** SKU 10102867	**BCDP-R20-P11N5.0-PC2** SKU 10102895	**BCDP-R20-P11N10-PC2** SKU 10102899
PNP N.C	**BCDP-R20-P21N10-PC2** SKU 10102868	**BCDP-R20-P21N5.0-PC2** SKU 10102896	**BCDP-R20-P21N10-PC2** SKU 10102900

TECHNICAL DATA

Size	①: 50.5X20X5.5mm ②: 50X22X5mm ③: 50X22X5mm
Sensing distance	①: 10mm(Non-Flush) ②: 5mm(Non-Flush) ③: 10mm(Non-Flush)
Switching frequency	100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤2VDC
Load current	①: ≤200mA ②: ≤150mA ③: ≤150mA
No-load current	①: ≤20mA(24V) ②: ≤15mA(24V) ③: ≤15mA(24V)
Hysteresis	<15%(Sr)
Repeatability	<5.0%(Sr)
Switch protection	Short-circuit protection, Polarity reversal protection, Power-on

LED indicator	①: With (Action: LED Indicator Lights Up) ②: Green: teaching; Yellow: output ③: Green: teaching; Yellow: output
Ambient temperature	①: -10...60°C ②: -25...70°C ③: -25...70°C
Ingress protection	①: IP65 ②: IP67 ③: IP67
Housing material	①: ABS ②: PBT ③: PBT
Sensing face material	①: ABS ②: PBT ③: PBT
Connection	①: 2m PVC Cable, 3*0.25mm² ②: 2m PVC Cable, 4*0.25mm² ③: 2m PVC Cable, 4*0.25mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

Q25 / Q33 Rectangular Capacitive Proximity Sensor

BCDP-R20-F3.0-PC2 series · Operating Voltage: 10...30VDC(±10%) · Switching Freq.: 100Hz

IP66
Ingress Protection



① ②

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30VDC(±10%)**	SWITCHING FREQ. **100Hz**
AMBIENT TEMP. **-25...70°C**	INGRESS PROTECTION **IP66**

FEATURES

- Potentiometer for sensitivity adjustment
- Detecting non-metals
- Detection of non-metallic objects depends on the dielectric constant of the object

MODEL CODES

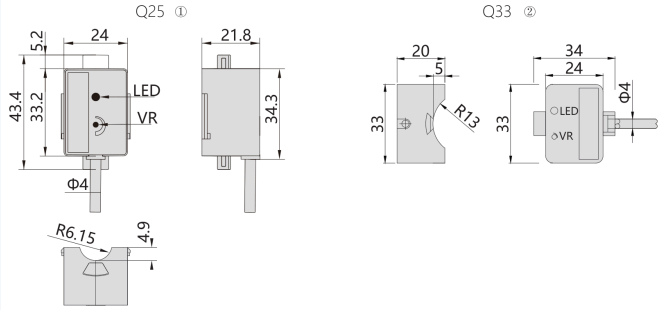
Output Type	43.4X24X21.8mm ①	33X24X20mm ②
NPN N.O	**BCDP-R20-N11F3.0-PC2** SKU 10102869	**BCDP-R33-N11F3.0-PC2** SKU 10102873
NPN N.C	**BCDP-R20-N21F3.0-PC2** SKU 10102870	**BCDP-R33-N21F3.0-PC2** SKU 10102874
PNP N.O	**BCDP-R20-P11F3.0-PC2** SKU 10102871	**BCDP-R33-P11F3.0-PC2** SKU 10102875
PNP N.C	**BCDP-R20-P21F3.0-PC2** SKU 10102872	**BCDP-R33-P21F3.0-PC2** SKU 10102876

TECHNICAL DATA

Size	43.4X24X21.8mm 33X24X20mm
Sensing distance	**43.4X24X21.8mm:** 3mm(Suitable for ϕ8...11 mm pipe)(Flush) **33X24X20mm:** 3mm(Suitable for ϕ12...26 mm pipe)(Flush)
Switching frequency	100Hz
Operating voltage	10...30VDC(±10%)
Voltage drop	≤1VDC
Load current	≤200mA
No-load current	≤12mA(24V)
Hysteresis	<15%(Sr)

Repeatability	<5.0%(Sr)
Switch protection	Polarity reversal protection, Power-on
LED indicator	With (Action: LED Indicator Lights Up)
Ambient temperature	-25...70°C
Ingress protection	IP66
Housing material	ABS
Sensing face material	ABS
Connection	2m PVC Cable, 3*0.25mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

Other Models — Order List

Capacitive Sensors · models without a datasheet page

M8 CYLINDRICAL



M8 Cylindrical Capacitive Sensor

Sn 2mm | Non-flush | IP67

SENSING DISTANCE
2mm

MOUNTING
Non-flush

HOUSING
Brass nickel-plated

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
100Hz

AMBIENT TEMPERATURE
-25...70°C

PROTECTION CLASS
IP67

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BCDS-M08-N11N2.0-PC2	10102629	NPN NO
BCDS-M08-N21N2.0-PC2	10102630	NPN NC
BCDS-M08-P11N2.0-PC2	10102631	PNP NO
BCDS-M08-P21N2.0-PC2	10102632	PNP NC



M8 Cylindrical Capacitive Sensor

Sn 2mm | Non-flush | IP67

SENSING DISTANCE
2mm

MOUNTING
Non-flush

HOUSING
Brass nickel-plated

CONNECTION
M12 connector 4pin

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
100Hz

AMBIENT TEMPERATURE
-25...70°C

PROTECTION CLASS
IP67

Product code	SKU	Output
BCDS-M08-N11N2.0-S124	10102637	NPN NO
BCDS-M08-N21N2.0-S124	10102638	NPN NC
BCDS-M08-P11N2.0-S124	10102639	PNP NO
BCDS-M08-P21N2.0-S124	10102640	PNP NC



M8 Cylindrical Capacitive Sensor

Sn 2mm | Non-flush | IP67

SENSING DISTANCE
2mm

MOUNTING
Non-flush

HOUSING
Brass nickel-plated

CONNECTION
M8 connector 3pin

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
100Hz

AMBIENT TEMPERATURE
-25...70°C

PROTECTION CLASS
IP67

Product code	SKU	Output
BCDS-M08-N11N2.0-S83	10102633	NPN NO
BCDS-M08-N21N2.0-S83	10102634	NPN NC
BCDS-M08-P11N2.0-S83	10102635	PNP NO
BCDS-M08-P21N2.0-S83	10102636	PNP NC

M30 CYLINDRICAL



M30 Cylindrical Capacitive Sensor

Sn 15mm | Non-flush | IP67

SENSING DISTANCE
15mm

MOUNTING
Non-flush

HOUSING
Plastic

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

AMBIENT TEMPERATURE
-25...+70°C

PROTECTION CLASS
IP67

ISO9001 CE UK

Product code	SKU	Output
BCLP-M30-R11N14-PC2	10105449	PNP NO

Other Models — Order List

Capacitive Sensors · models without a datasheet page

Φ34 CYLINDRICAL



Φ34 Cylindrical Capacitive Sensor

Sn 35mm | Non-flush | IP67

SENSING DISTANCE
35mm

MOUNTING
Non-flush

HOUSING
PBT

CONNECTION
M12 0.3m cable with connector 4pin

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
100Hz

AMBIENT TEMPERATURE
-25...70°C

PROTECTION CLASS
IP67

Product code	SKU	Output
BCDP-Q34-N11N35-Z124	10102781	NPN NO
BCDP-Q34-N21N35-Z124	10102782	NPN NC
BCDP-Q34-P11N35-Z124	10102783	PNP NO
BCDP-Q34-P21N35-Z124	10102784	PNP NC

OTHER MODELS



BCHP-75 Amplifier

OPERATING VOLTAGE
18-30VDC

SWITCHING FREQ.
10Hz

AMBIENT TEMPERATURE
-25...70°C

Product code	SKU
BCHP-75	10102902



BCHP-75-Y-S12 Amplifier

OPERATING VOLTAGE
24VDC

SWITCHING FREQ.
10Hz

AMBIENT TEMPERATURE
-25...70°C

Product code	SKU
BCHP-75-Y-S12	10102904



BCHP-R22-5/12-S16

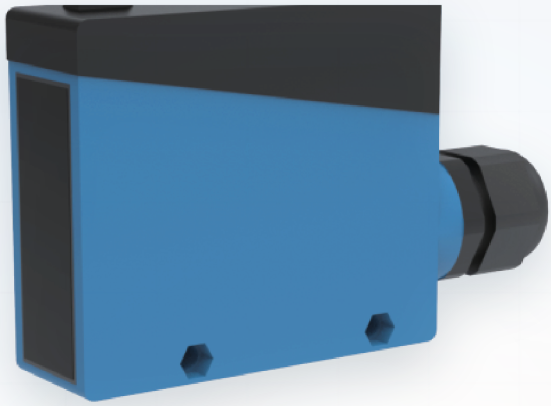
IP66

AMBIENT TEMPERATURE
-10...250°C

PROTECTION CLASS
IP66

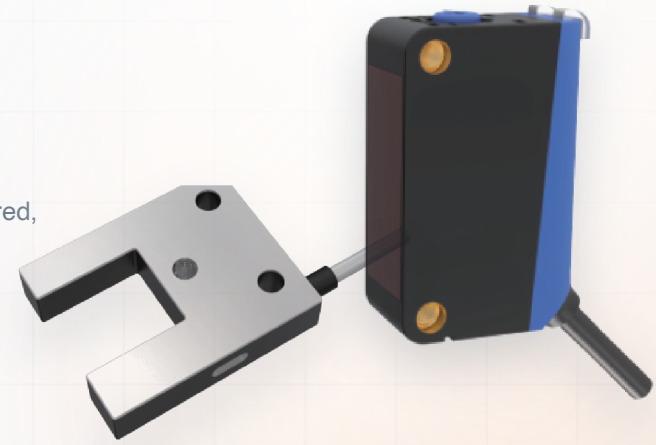
Product code	SKU
BCHP-R22-5/12-S16	10102901
BCHP-R22-5/12/65-S16	10102903

03



Photoelectric Sensors

Photoelectric sensors with through-beam, retro-reflective, diffuse and background suppression principles; infrared, red, blue light and laser models, fork sensors and fiber optic solutions.



628 MODELS

63 SERIES

01
Through-beam, retro-reflective, diffuse

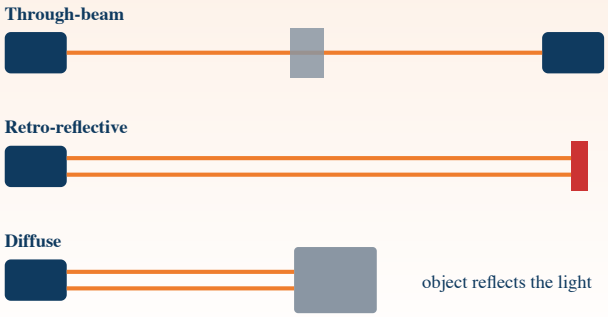
02
Laser and TOF distance measurement

03
Fork sensors and fiber optics

04
Infrared, red and blue light

TECHNOLOGY

How photoelectric sensors work



Detection with a light beam

The emitter sends a light beam and the receiver evaluates whether, or how much, light arrives. Interruption of the beam or reflection from an object switches the output. The principle is chosen according to distance, object surface and mounting options.

Through-beam

Separate emitter and receiver; longest range and most reliable detection.

Retro-reflective

Single housing plus reflector; easy mounting, medium to long range.

Diffuse

The object itself reflects the light; no reflector needed.

Background suppression

Ignores surfaces beyond the set distance.

Laser / TOF

Precise distance by time-of-flight; small light spot.

Fork and fiber optic

Labels, small parts and tight spaces.

SELECTION TIPS

- **Light source:** infrared (invisible, long range), red light (easy alignment), red laser (small spot).
- Choose a suitable principle and setting for **shiny / transparent objects**.
- **Output:** NPN / PNP, N.O / N.C or N.O+N.C.

TYPICAL APPLICATIONS

- Object detection on conveyors
- Packaging and labelling
- Doors and access control
- Distance measurement (TOF)
- Printing and paper lines
- Warehousing and logistics

LIGHT SOURCES

Infrared

Invisible light; long range, resistant to ambient light.

Red light

Visible spot; easy alignment and setup.

Blue light

Stable detection on shiny and dark surfaces.

Red laser

Very small light spot; small objects and precise positioning.

Sensing distances are given for a white reference object and a standard reflector; ambient light and contamination can affect performance.

QUICK SELECTION

Photoelectric Sensors

Series grouped by housing type. Click a series code or page number to go to that page.



M12 Cylindrical

4 series · series code, sensing distance, page

BFRP-M12-N31I200-PC2	0.3...2m	200
BFTP-M12-I300-PC2	3m	201
BFTP-M12-E1I520-PC2	5.2m	202
BFDP-M12-N31I20-PC2	200mm	203



M18 Cylindrical

11 series · series code, sensing distance, page

BFRP-E18-I300-PC2-S124	0.1...3m	204
BFRP-M18-A14I300-PC2	0.1...3m	205
BFRP-M18-N31I300-PC2	0.1...3m	206
BFBP-M18-N31I10-PC2	10...100mm	207
BFTP-E18-I1500-PC2-S124	15m	208
BFTP-M18-E1I1500-PC2	15m	209
BFTP-M18-E4I1500-PC2	15m	210
BFDP-M18-A14I15-PC2	150mm / / 500mm	211
BFDP-M18-A14I15-S124	150mm / / 500mm	212
BFDP-M18-N31I15-PC2	150mm / / 500mm	213
BFDP-M18-N31I15-S124	150mm / / 500mm	214



Q20 Rectangular

3 series · series code, sensing distance, page

BFTP-R20-R50-PC2-C	500mm	215
BFTP-R20-R50-Z83_3P-Z83-C_3P	500mm	216
BFTP-R20-R50-Z84-C	500mm	217



Q21 Rectangular

4 series · series code, sensing distance, page

BFTM-R21-R100-PC2	1m	218
BFTP-R21-L500-R100-PC2	1m / / 5m	219
BFBP-R21-R8.5-PC2	15...85mm	220
BFBM-R21-R3.0-PC2	30mm	221



Q23 Rectangular — TOF

1 series · series code, sensing distance, page

BFDP-R23-LTI100-PC2	20...1000mm	222



Q25 / Q28 / Q36 Rectangular

1 series · series code, sensing distance, page

BFGP-R25-I07-I10-I15-PC2	7mm / / 10mm / / 15mm	223



Q26 Rectangular

1 series · series code, sensing distance, page

BFGP-R26-I13-PC2		224



Q30 Rectangular

1 series · series code, sensing distance, page

BFBP-R30-R3.0-PC2	1...30mm	225

PHOTOELECTRIC



Q31 Rectangular

21 series · series code, sensing distance, page

BFBP-R31-B25-R10-PC2-S84	10...100mm / 10...250mm	226
BFRP-R31.T-R200-PC2	0...2000mm	227
BFDP-R31-I100-PC2	1m	228
BFDP-R31-R100-PC2-S84	1m	229
BFBP-R31-R5.0-PC2-S84	2...50mm	230
BFRP-R31-I200-I400-PC2-N	2m / / 4m	231
BFRP-R31-I200-I400-R200-R400-S84-1-Y	2m / / 4m	232
BFRP-R31-L200-L400-PC2-S84	2m / / 4m	233
BFRP-R31.T-31R200-PC2	2m	234
BFTP-R31-I500-I1500-PC2-N	5m / / 15m	235
BFTP-R31-I500-I1500-R500-R1500-PC2-1-Y	5m / / 15m	236
BFTP-R31-I500-I1500-R500-R1500-S84-1-Y	5m / / 15m	237
BFTP-R31-L500-L1500-PC2-LD	5m / / 15m	238
BFTP-R31-L500-L1500-S84-LD	5m / / 15m	239
BFTP-R31-R500-R1500-PC2-1-LD	5m / / 15m	240
BFTP-R31-R500-R1500-S84-1-LD	5m / / 15m	241
BFBP-R31-L25-PC2-S84	10...250mm	242
BFBP-R31-L25-R25-S84-LD	10...250mm	243
BFBP-R31-R25-PC2-S84	10...250mm	244
BFDP-R31-I11-I35-I80-PC2-N	110mm / / 350mm / / 800mm	245
BFDP-R31-R20-PC2-D-N	200mm	246



Q31 Rectangular — TOF

2 series · series code, sensing distance, page

BFDP-R31-LTI100-LTI200-LTI400-LTR100-LTR200-LTR400-PC2	50...1000mm / 50...2000mm / 50.....	247
BFDP-R31-RLTI100-RLTI200-RLTI400-PC2-R	50...1000mm / 50...2000mm / 50.....	248



Q45 Rectangular — Contrast

1 series · series code, sensing distance, page

BFCM-R45-3150-PC2	50-500mm	249



Q45 Rectangular — TOF

1 series · series code, sensing distance, page

BFDP-R45-LTI500-LTR500-PC2	0.05m~5m	250



Q50 / Q78 Rectangular

1 series · series code, sensing distance, page

BFGP-R50-N31I30-PC2	30mm / / 50mm	251



Q50 Rectangular

3 series · series code, sensing distance, page

BFDP-R50-N31I100-PC2	1m / / 2m / / 5m	252
BFTP-R50-EU55I2000-EU55I4000-RU45I2000-RU45I4000-PC2	20m / / 40m	253
BFTP-R50-I2000-I4000-PC2	20m / / 40m	254



Q60 Rectangular — TOF

1 series · series code, sensing distance, page

BFDP-R60-31LTR500-31LTR3000-RLTR3000-PC2	0.05m~5m / / 0.05m~30m	255



Q72 Rectangular

1 series · series code, sensing distance, page

BFGP-R72-I26-PC2-3	26mm	256

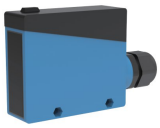
PHOTOELECTRIC



Q74 Rectangular

1 series · series code, sensing distance, page

BFGP-R74-I30-PC3	30mm	257



Q78 Rectangular

4 series · series code, sensing distance, page

BFRP-R78-I600-T-F-D	0.6-...6m	258
BFDP-R78-I200-T	2m	259
BFDP-R78-U45I200-T	2m / / 10m	260
BFTP-R78-EU55I5000-RU45I5000-T	50m	261



Q80 Rectangular — Contrast

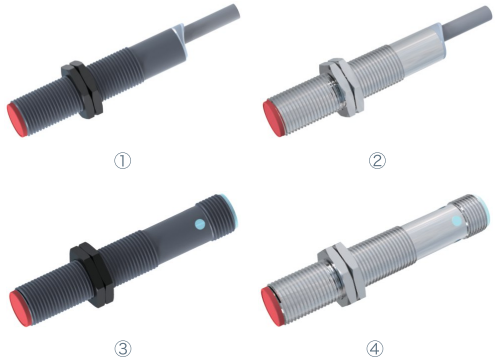
1 series · series code, sensing distance, page

BFCP-R80-3109-S124	9mm	262

M12 Cylindrical Photoelectric Sensor

BFRP-M12-N31I200-PC2 series · Sensing Distance: 0.3...2m · Operating Voltage: 10...30V DC

IP66
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **0.3...2m**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **M12*1mm**	RESPONSE TIME **<2ms**

FEATURES

- Quick response time
- Infrared light source
- Strong light immunity capability

MODEL CODES

Output Type	①	②	③	④
NPN N.O+N.C	**BFRP-M12-N31I200-PC2** SKU 10104786	**BFRM-M12-N31I200-PC2** SKU 10104788	**BFRP-M12-N31I200-S124** SKU 10104790	**BFRM-M12-N31I200-S124** SKU 10104792
PNP N.O+N.C	**BFRP-M12-P31I200-PC2** SKU 10104787	**BFRM-M12-P31I200-PC2** SKU 10104789	**BFRP-M12-P31I200-S124** SKU 10104791	**BFRM-M12-P31I200-S124** SKU 10104793

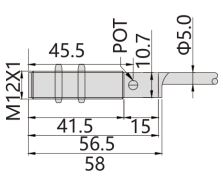
TECHNICAL DATA

Exterior structure	M12*1mm
Sensing distance	0.3...2m
Detection type	Retro-reflective
Switching frequency	500Hz
Operating voltage	10...30V DC
Light source	Infrared light 880nm
Response time	<2ms
Load current	≤150mA
Power-on delay	<300ms
Sensitivity adjustment	Multi-turn potentiometer
Blind distance	<30cm
Light immunity	<5000Lux
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	①: PBT ②: Brass, nickel-plated ③: PBT ④: Brass, nickel-plated

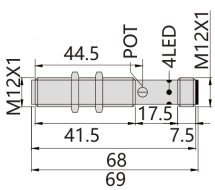
Ingress protection	IP66
Lens material	PMMA
Operation indicator	Yellow
Connection	①: 2m PVC Cable, 4*0.25mm² ②: 2m PVC Cable, 4*0.25mm² ③: M12Connector ④: M12Connector
Accessories	①: None ②: None ③: M12 4 pin cable with connector ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

M12X58 Cable ①



M12X69 Connector ②



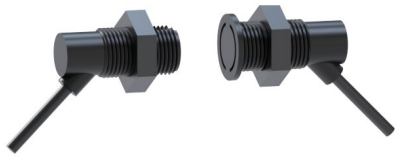
All dimensions in mm.

PHOTOELECTRIC

M12 Cylindrical Photoelectric Sensor

BFTP-M12-I300-PC2 series · Sensing Distance: 3m · Operating Voltage: 10...24V DC(±10%)

IP66
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **3m**	OPERATING VOLTAGE **10...24V DC(±10%)**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **M12*1mm**	RESPONSE TIME **≤2ms**

FEATURES

- Long detection distance
- Wide detection objects range
- Infrared light with high light immunity capability

MODEL CODES

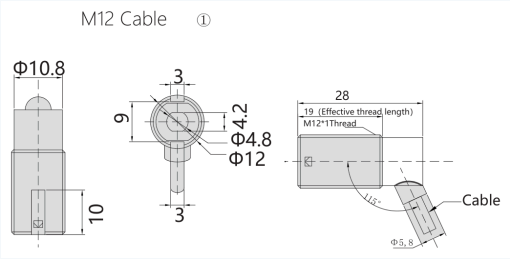
Output Type	Model Code
Emitter	**BFTP-M12-E1I300-PC2** SKU 10104743
NPN N.O	**BFTP-M12-N11I300-PC2** SKU 10104744
NPN N.C	**BFTP-M12-N21I300-PC2** SKU 10104745
PNP N.O	**BFTP-M12-P11I300-PC2** SKU 10104746
PNP N.C	**BFTP-M12-P21I300-PC2** SKU 10104747

TECHNICAL DATA

Exterior structure	M12*1mm
Sensing distance	3m
Detection type	Through-beam
Operating voltage	10...24V DC(±10%)
Switching frequency	500Hz
Light source	Infrared light 850nm
Response time	≤2ms
Load current	≤100mA
Current consumption	Emitter below 25mA, receiver below 15mA
Short-circuit protection	Yes
Operation indicator	Green: power indicator, Yellow: output
Output mode	NPN/PNP N.O/N.C

Withstand voltage	AC 1000V 1min(Between the power cord and the housing)
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Pollution degree	3(Industrial environment)
Ingress protection	IP66(IEC)
Housing material	PC
Lens material	PMMA
Insulation resistance	DC 250V high resistance meter above 20MΩ
Connection	2m PVC Cable, 3*0.35mm² 2*0.5mm²
Accessories	None

DIMENSIONAL DRAWINGS



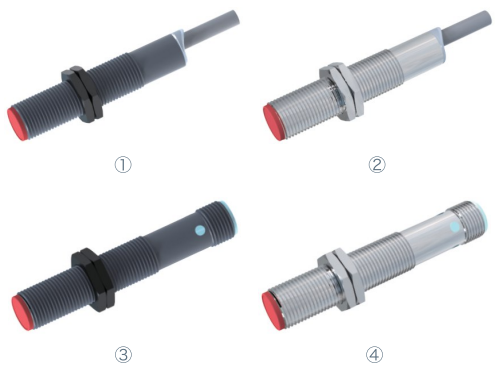
All dimensions in mm.

PHOTOELECTRIC

M12 Cylindrical Photoelectric Sensor

BFTP-M12-E1I520-PC2 series · Sensing Distance: 5.2m · Operating Voltage: 10...30V DC

IP66
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **5.2m**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **M12*1mm**	RESPONSE TIME **≤2ms**

FEATURES

- Long detection distance
- Wide detection objects range
- Detect by light characteristics

MODEL CODES

Output Type	①	②	③	④
Emitter	BFTP-M12-E1I520-PC2 SKU 10104723	BFTM-M12-E1I520-PC2 SKU 10104728	BFTP-M12-E1I520-S124 SKU 10104733	BFTM-M12-E1I520-S124 SKU 10104738
NPN N.O	BFTP-M12-N11I520-PC2 SKU 10104724	BFTM-M12-N11I520-PC2 SKU 10104729	BFTP-M12-N11I520-S124 SKU 10104734	BFTM-M12-N11I520-S124 SKU 10104739
NPN N.C	BFTP-M12-N21I520-PC2 SKU 10104725	BFTM-M12-N21I520-PC2 SKU 10104730	BFTP-M12-N21I520-S124 SKU 10104735	BFTM-M12-N21I520-S124 SKU 10104740
PNP N.O	BFTP-M12-P11I520-PC2 SKU 10104726	BFTM-M12-P11I520-PC2 SKU 10104731	BFTP-M12-P11I520-S124 SKU 10104736	BFTM-M12-P11I520-S124 SKU 10104741
PNP N.C	BFTP-M12-P21I520-PC2 SKU 10104727	BFTM-M12-P21I520-PC2 SKU 10104732	BFTP-M12-P21I520-S124 SKU 10104737	BFTM-M12-P21I520-S124 SKU 10104742

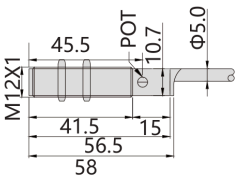
TECHNICAL DATA

Exterior structure	M12*1mm
Sensing distance	5.2m
Detection type	Through-beam
Switching frequency	500Hz
Operating voltage	10...30V DC
Light source	Infrared light 880nm
Response time	≤2ms
Load current	≤150mA
Power-on delay	<300ms
Sensitivity adjustment	Multi-turn potentiometer
Light immunity	<5000Lux
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Ingress protection	IP66

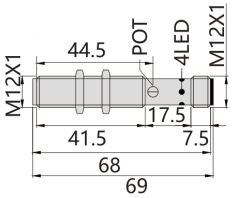
Housing material	①: PBT ②: Brass, nickel-plated ③: PBT ④: Brass, nickel-plated
Lens material	PMMA
Operation indicator	Yellow
Connection	①: 2m PVC Cable, 3*0.35mm² 2*0.5mm² ②: 2m PVC Cable, 3*0.35mm² 2*0.5mm² ③: M12 Connector ④: M12 Connector
Accessories	①: None ②: None ③: M12 4 pin cable with connector ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

M12X58 Cable ①



M12X68 Connector ②

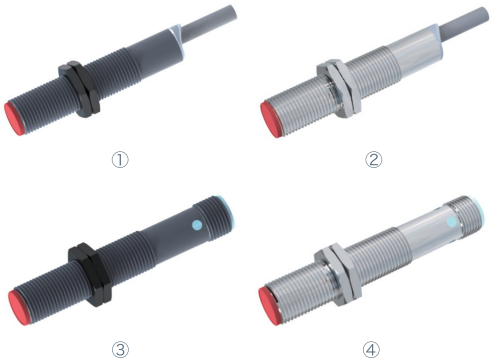


All dimensions in mm.

M12 Cylindrical Photoelectric Sensor

BFDP-M12-N31I20-PC2 series · Sensing Distance: 200mm · Operating Voltage: 10...30V DC

IP66
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **200mm**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **M12*1mm**	RESPONSE TIME **<2ms**

FEATURES

- Quick response time
- Infrared light source
- Strong light immunity capability

MODEL CODES

Output Type	①	②	③	④
NPN N.O+N.C	**BFDP-M12-N31I20-PC2** SKU 10104748	**BFDM-M12-N31I20-PC2** SKU 10104750	**BFDP-M12-N31I20-S124** SKU 10104752	**BFDM-M12-N31I20-S124** SKU 10104754
PNP N.O+N.C	**BFDP-M12-P31I20-PC2** SKU 10104749	**BFDM-M12-P31I20-PC2** SKU 10104751	**BFDP-M12-P31I20-S124** SKU 10104753	**BFDM-M12-P31I20-S124** SKU 10104755

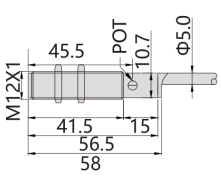
TECHNICAL DATA

Exterior structure	M12*1mm
Sensing distance	200mm
Detection type	Diffuse reflection
Switching frequency	500Hz
Operating voltage	10...30V DC
Light source	Infrared light 880nm
Response time	<2ms
Load current	≤150mA
Power-on delay	<300ms
Sensitivity adjustment	Multi-turn potentiometer
Light immunity	<5000Lux
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	①: PBT ②: Brass, nickel-plated ③: PBT ④: Brass, nickel-plated

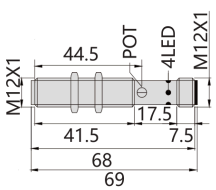
Ingress protection	IP66
Lens material	PMMA
Operation indicator	Yellow
Connection	①: 2m PVC Cable, 4*0.25mm² ②: 2m PVC Cable, 4*0.25mm² ③: M12 Connecor ④: M12 Connecor
Accessories	①: None ②: None ③: M12 4 pin cable with connector ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

M12X58 Cable ①



M12X69 Connecor ②



All dimensions in mm.

PHOTOELECTRIC

M18 Cylindrical Photoelectric Sensor

BFRP-E18-I300-PC2-S124 series · Sensing Distance: 0.1...3m · Operating Voltage: 10...30V DC

IP66
Ingress Protection



① ②

KEY SPECIFICATIONS

SENSING DISTANCE **0.1...3m**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **M18*1mm**	RESPONSE TIME **<2ms**

FEATURES

- Quick response time
- Wide application range
- Can detect a variety of objects

MODEL CODES

Output Type	①	②
NPN N.O+N.C	**BFRP-E18-N31I300-PC2** SKU 10104802	**BFRP-E18-N31I300-S124** SKU 10104804
PNP N.O+N.C	**BFRP-E18-P31I300-PC2** SKU 10104803	**BFRP-E18-P31I300-S124** SKU 10104805

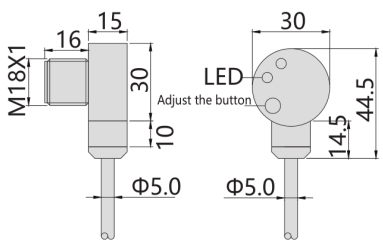
TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	0.1...3m
Detection type	Retro-reflective
Switching frequency	500Hz
Operating voltage	10...30V DC
Light source	Infrared light 880nm
Response time	<2ms
Load current	≤200mA
Power-on delay	<300ms
Sensitivity adjustment	Single-turn potentiometer
Light immunity	<5000Lux

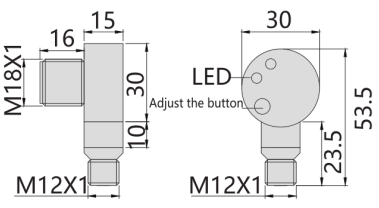
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	PBT
Ingress protection	IP66
Lens material	PMMA
Operation indicator	Yellow
Connection	①: 2m PVC Cable, 4*0.25mm² ②: M12Connector
Accessories	①: None ②: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

Q18 Cable ①



Q18Connector ②



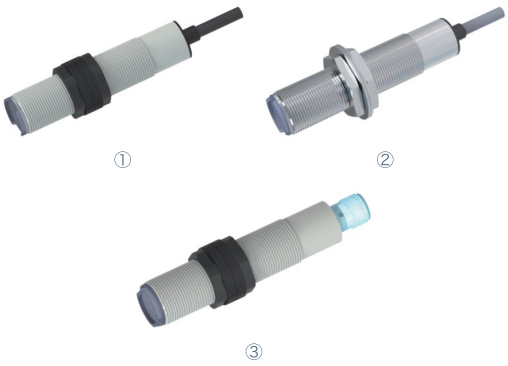
All dimensions in mm.

PHOTOELECTRIC

M18 Cylindrical Photoelectric Sensor

BFRP-M18-A14I300-PC2 series · Sensing Distance: 0.1...3m · Operating Voltage: 24...240V AC

IP66
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **0.1...3m**	OPERATING VOLTAGE **24...240V AC**
SWITCHING FREQ. **25Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **M18*1mm**	RESPONSE TIME **≤40ms**

FEATURES

- Quick response time
- Infrared light source
- Strong light immunity capability

MODEL CODES

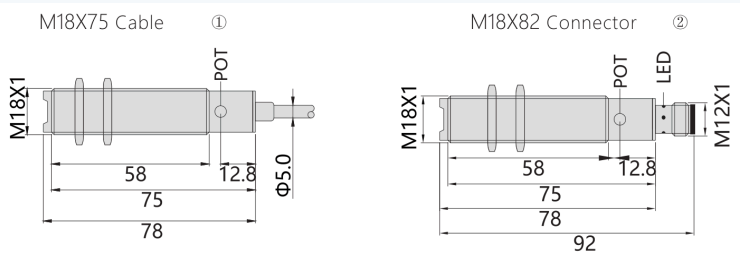
Output Type	①	②	③
N.O N.C	**BFRP-M18-A14I300-PC2** SKU 10104860	**BFRM-M18-A14I300-PC2** SKU 10104862	**BFRP-M18-A14I300-S124** SKU 10104864
N.C	**BFRP-M18-A24I300-PC2** SKU 10104861	**BFRM-M18-A24I300-PC2** SKU 10104863	**BFRP-M18-A24I300-S124** SKU 10104865

TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	0.1...3m
Detection type	Retro-reflection
Switching frequency	25Hz
Operating voltage	24...240V AC
Light source	Infrared light 880nm
Response time	≤40ms
Load current	≤300mA
Power-on delay	<300ms
Blind distance	<10cm
Sensitivity adjustment	Single-turn potentiometer
Light immunity	<5000Lux
Ambient temperature	-25...55°C

Ambient humidity	35...85%
Housing material	①: PBT ②: Brass, nickel-plated ③: PBT
Ingress protection	IP66
Lens material	PMMA
Operation indicator	Yellow
Connection	①: 2m PVC Cable, 3*0.35mm² ②: 2m PVC Cable, 3*0.35mm² ③: M12Connector
Accessories	①: FPHL-08 ②: FPHL-08 ③: M12 4 pin cable with connector/FPHL-08

DIMENSIONAL DRAWINGS



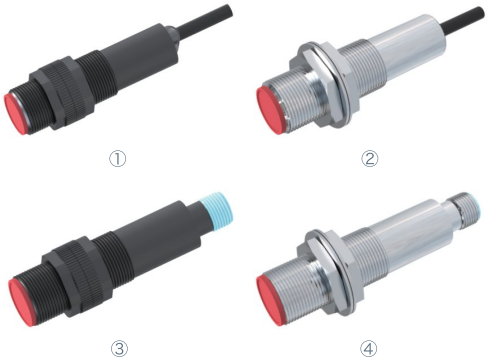
All dimensions in mm.

PHOTOELECTRIC

M18 Cylindrical Photoelectric Sensor

BFRP-M18-N31I300-PC2 series · Sensing Distance: 0.1...3m · Operating Voltage: 10...30V DC

IP66
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **0.1...3m**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **M18*1mm**	RESPONSE TIME **<2ms**

FEATURES

- Quick response time
- Infrared light source
- Strong light immunity capability

MODEL CODES

Output Type	①	②	③	④
NPN N.O+N.C	**BFRP-M18-N31I300-PC2** SKU 10104794	**BFRM-M18-N31I300-PC2** SKU 10104796	**BFRP-M18-N31I300-S124** SKU 10104798	**BFRM-M18-N31I300-S124** SKU 10104800
PNP N.O+N.C	**BFRP-M18-P31I300-PC2** SKU 10104795	**BFRM-M18-P31I300-PC2** SKU 10104797	**BFRP-M18-P31I300-S124** SKU 10104799	**BFRM-M18-P31I300-S124** SKU 10104801

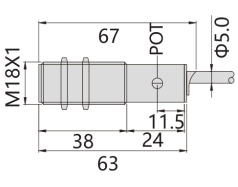
TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	0.1...3m
Detection type	Retro-reflective
Switching frequency	500Hz
Operating voltage	10...30V DC
Light source	Infrared light 880nm
Response time	<2ms
Load current	≤200mA
Power-on delay	<300ms
Sensitivity adjustment	Single-turn potentiometer
Blind distance	<10cm
Light immunity	<5000Lux
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	①: PBT ②: Brass, nickel-plated ③: PBT ④: Brass, nickel-plated

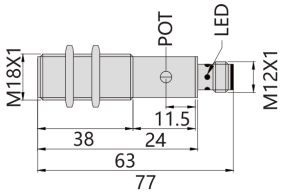
Ingress protection	IP66
Lens material	PMMA
Operation indicator	Yellow
Connection	①: 2m PVC Cable, 4*0.25mm² ②: 2m PVC Cable, 4*0.25mm² ③: M12Connector ④: M12Connector
Accessories	①: None ②: None ③: M12 4 pin cable with connector ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

M18X63 Cable ①



M18X77Connector ②

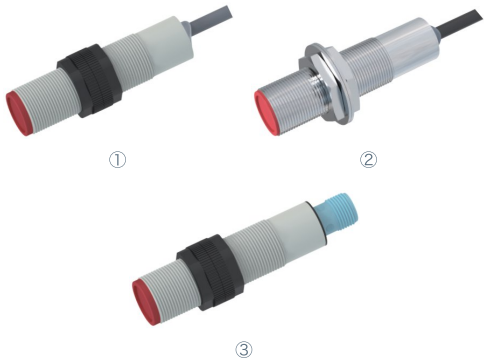


All dimensions in mm.

M18 Cylindrical Photoelectric Sensor

BFBP-M18-N31I10-PC2 series · Sensing Distance: 10...100mm · Operating Voltage: 10...30V DC

IP66
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **10...100mm**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **1000Hz**	AMBIENT TEMP. **-25...55°C**
RESPONSE TIME **≤1ms**	INGRESS PROTECTION **IP66**

FEATURES

- No need to distinguish the target object color Quick response Reverse connection protection

MODEL CODES

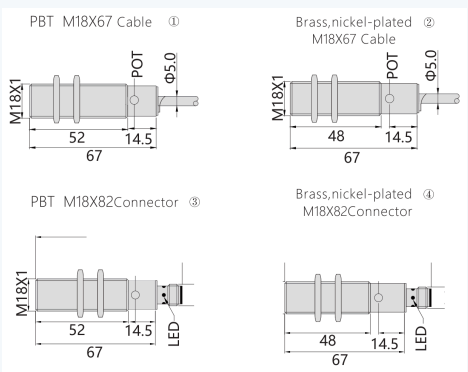
Output Type	①	②	③
NPN N.O+N.C	**BFBP-M18-N31I10-PC2** SKU 10104824	**BFBM-M18-N31I10-PC2** SKU 10104826	**BFBP-M18-N31I10-S124** SKU 10104828
PNP N.O+N.C	**BFBP-M18-P31I10-PC2** SKU 10104825	**BFBM-M18-P31I10-PC2** SKU 10104827	**BFBP-M18-P31I10-S124** SKU 10104829

TECHNICAL DATA

Sensing distance	10...100mm
Detection type	Background suppression
Switching frequency	1000Hz
Operating voltage	10...30V DC
Light source	Red Light 624nm
Response time	≤1ms
Load current	≤200mA
Power-on delay	<300ms
Blind distance	<1cm
Sensitivity adjustment	Single-turn potentiometer
Light immunity	<5000Lux

Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	①: PBT ②: Brass, nickel-plated ③: PBT
Ingress protection	IP66
Lens material	PMMA
LED indicator	Yellow
Connection	2m PVC Cable, 4*0.25mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

M18 Cylindrical Photoelectric Sensor

BFTP-E18-I1500-PC2-S124 series · Sensing Distance: 15m · Operating Voltage: 10...30V DC

IP66
Ingress Protection



① ②

KEY SPECIFICATIONS

SENSING DISTANCE **15m**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **M18*1mm**	RESPONSE TIME **<2ms**

FEATURES

- Long detection distance
- Wide application range
- Can detect a variety of objects

MODEL CODES

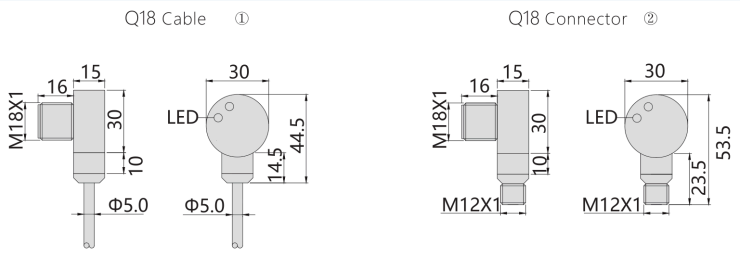
Output Type	①	②
Emitter	**BFTP-E18-E1I1500-PC2** SKU 10104818	**BFTP-E18-E1I1500-S124** SKU 10104821
NPN N.O+N.C	**BFTP-E18-N31I1500-PC2** SKU 10104819	**BFTP-E18-N31I1500-S124** SKU 10104822
PNP N.O+N.C	**BFTP-E18-P31I1500-PC2** SKU 10104820	**BFTP-E18-P31I1500-S124** SKU 10104823

TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	15m
Detection type	Through-beam
Switching frequency	500Hz
Operating voltage	10...30V DC
Light source	Infrared light 880nm
Response time	<2ms
Load current	≤200mA
Power-on delay	<300ms
Sensitivity adjustment	None
Light immunity	<5000Lux

Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	PBT
Ingress protection	IP66
Lens material	PMMA
Operation indicator	Yellow
Connection	①: 2m PVC Cable, 2*0.25mm², 4*0.25mm² ②: M12 Connector
Accessories	①: None ②: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS



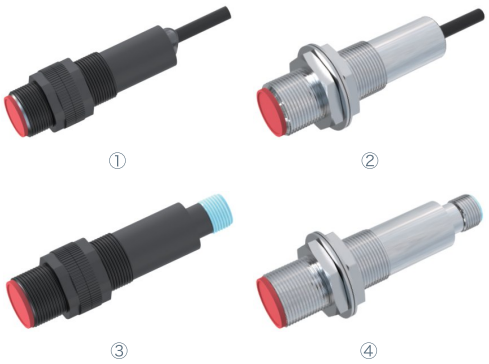
All dimensions in mm.

PHOTOELECTRIC

M18 Cylindrical Photoelectric Sensor

BFTP-M18-E1I1500-PC2 series · Sensing Distance: 15m · Operating Voltage: 10...30V DC

IP66
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **15m**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **M18*1mm**	RESPONSE TIME **<2ms**

FEATURES

- Long detection distance
- Wide detection range
- Infrared light source
- Light immunity capability

MODEL CODES

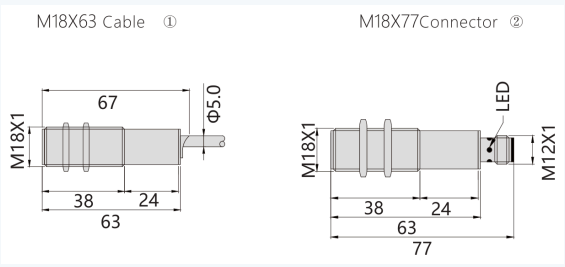
Output Type	①	②	③	④
Emitter	BFTP-M18-E1I1500-PC2 SKU 10104806	BFTM-M18-E1I1500-PC2 SKU 10104809	BFTP-M18-E1I1500-S124 SKU 10104812	BFTM-M18-E1I1500-S124 SKU 10104815
NPN N.O+N.C	BFTP-M18-N31I1500-PC2 SKU 10104807	BFTM-M18-N31I1500-PC2 SKU 10104810	BFTP-M18-N31I1500-S124 SKU 10104813	BFTM-M18-N31I1500-S124 SKU 10104816
PNP N.O+N.C	BFTP-M18-P31I1500-PC2 SKU 10104808	BFTM-M18-P31I1500-PC2 SKU 10104811	BFTP-M18-P31I1500-S124 SKU 10104814	BFTM-M18-P31I1500-S124 SKU 10104817

TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	15m
Detection type	Through-beam
Switching frequency	500Hz
Operating voltage	10...30V DC
Light source	Infrared light 880nm
Response time	<2ms
Load current	≤200mA
Power-on delay	<300ms
Sensitivity adjustment	No
Light immunity	<5000Lux
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	①: PBT ②: Brass, nickel-plated ③: PBT ④: Brass, nickel-plated

Ingress protection	IP66
Lens material	PMMA
Operation indicator	Yellow
Connection	①: 2m PVC Cable, 2*0.5mm²/4*0.25mm² ②: 2m PVC Cable, 2*0.5mm²/4*0.25mm² ③: M12 Connector ④: M12 Connector
Accessories	①: None ②: None ③: M12 4 pin cable with connector ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS



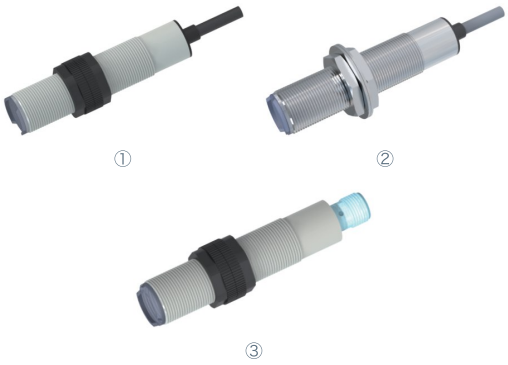
All dimensions in mm.

PHOTOELECTRIC

M18 Cylindrical Photoelectric Sensor

BFTP-M18-E4I1500-PC2 series · Sensing Distance: 15m · Operating Voltage: 24...240V AC

IP66
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **15m**	OPERATING VOLTAGE **24...240V AC**
SWITCHING FREQ. **50Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **M18*1mm**	RESPONSE TIME **≤20ms**

FEATURES

- Long detection distance
- Wide detection target objects range
- Infrared light with high light immunity capability

MODEL CODES

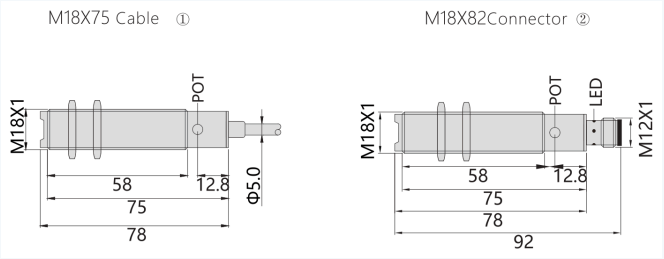
Output Type	①	②	③
Emitter	**BFTP-M18-E4I1500-PC2** SKU 10104848	**BFTM-M18-E1I1500-PC2** SKU 10104851	**BFTP-M18-E4I1500-S124** SKU 10104854
N.O	**BFTP-M18-A14I1500-PC2** SKU 10104849	**BFTM-M18-A14I1500-PC2** SKU 10104852	**BFTP-M18-A14I1500-S124** SKU 10104855
N.C	**BFTP-M18-A24I1500-PC2** SKU 10104850	**BFTM-M18-A24I1500-PC2** SKU 10104853	**BFTP-M18-A24I1500-S124** SKU 10104856

TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	15m
Detection type	Through-beam
Switching frequency	50Hz
Operating voltage	24...240V AC
Light source	Infrared light 880nm
Response time	≤20ms
Load current	≤300mA
Power-on	<300ms delay
Sensitivity adjustment	Single-turn potentiometer
Light immunity	<5000Lux
Ambient temperature	-25...55°C

Ambient humidity	35...85%
Housing material	①: PBT ②: Brass, nickel-plated ③: PBT
Ingress protection	IP66
Lens material	PMMA
Operation indicator	Yellow
Connection	①: 2m PVC Cable, 3*0.35mm² ②: 2m PVC Cable, 3*0.35mm² ③: M12Connector
Accessories	①: None ②: None ③: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

M18 Cylindrical Photoelectric Sensor

BFDP-M18-A14I15-PC2 series · Sensing Distance: 150mm / 500mm · Operating Voltage: 24...240V AC

IP66
Ingress Protection



①②



③④

KEY SPECIFICATIONS

SENSING DISTANCE **150mm / 500mm**	OPERATING VOLTAGE **24...240V AC**
SWITCHING FREQ. **25Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **M18*1mm**	RESPONSE TIME **≤40ms**

FEATURES

- Quick response time; Infrared light source; Strong light immunity capability

MODEL CODES

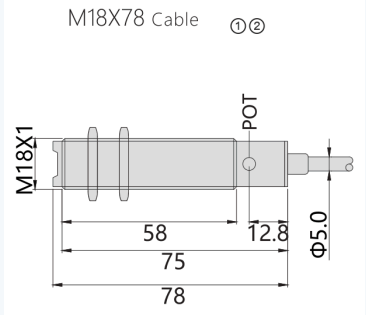
Output Type	①	②	③	④
N.O	**BFDP-M18-A14I15-PC2** SKU 10104832	**BFDP-M18-A14I50-PC2** SKU 10104834	**BFDM-M18-A14I15-PC2** SKU 10104836	**BFDM-M18-A14I50-PC2** SKU 10104838
N.C	**BFDP-M18-A24I15-PC2** SKU 10104833	**BFDP-M18-A24I50-PC2** SKU 10104835	**BFDM-M18-A24I15-PC2** SKU 10104837	**BFDM-M18-A24I50-PC2** SKU 10104839

TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	①: 150mm ②: 500mm ③: 150mm ④: 500mm
Detection type	Diffuse reflection
Switching frequency	25Hz
Operating voltage	24...240V AC
Light source	Infrared light 880nm
Response time	≤40ms
Load current	≤300mA
Power-on delay	<300ms
Blind distance	<1cm
Sensitivity adjustment	Single-turn potentiometer

Light immunity	<5000Lux
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	①: PBT ②: PBT ③: Brass, nickel-plated ④: Brass, nickel-plated
Ingress protection	IP66
Lens material	PMMA
Operation indicator	Yellow
Connection	2m PVC Cable, 3*0.35mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

M18 Cylindrical Photoelectric Sensor

BFDP-M18-A14I15-S124 series · Sensing Distance: 150mm / 500mm · Operating Voltage: 24...240V AC

IP66
Ingress Protection



①②



③④

KEY SPECIFICATIONS

SENSING DISTANCE **150mm / 500mm**	OPERATING VOLTAGE **24...240V AC**
SWITCHING FREQ. **25Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **M18*1mm**	RESPONSE TIME **≤40ms**

FEATURES

- Quick response time; Infrared light source; Strong light immunity capability

MODEL CODES

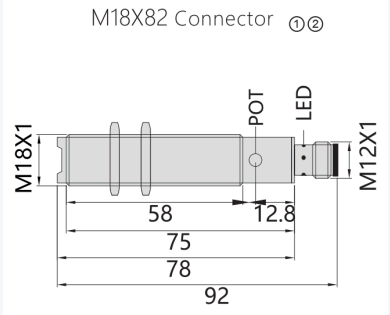
Output Type	①	②	③	④
N.O	**BFDP-M18-A14I15-S124** SKU 10104840	**BFDP-M18-A14I50-S124** SKU 10104842	**BFDM-M18-A14I15-S124** SKU 10104844	**BFDM-M18-A14I50-S124** SKU 10104846
N.C	**BFDP-M18-A24I15-S124** SKU 10104841	**BFDP-M18-A24I50-S124** SKU 10104843	**BFDM-M18-A24I15-S124** SKU 10104845	**BFDM-M18-A24I50-S124** SKU 10104847

TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	①: 150mm ②: 500mm ③: 150mm ④: 500mm
Detection type	Diffuse reflection
Switching frequency	25Hz
Operating voltage	24...240V AC
Light source	Infrared light 880nm
Response time	≤40ms
Load current	≤300mA
Power-on delay	<300ms
Blind distance	<1cm
Sensitivity adjustment	Single-turn potentiometer

Light immunity	<5000Lux
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	①: PBT ②: PBT ③: Brass, nickel-plated ④: Brass, nickel-plated
Ingress protection	IP66
Lens material	PMMA
Operation indicator	Yellow
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

M18 Cylindrical Photoelectric Sensor

BFDP-M18-N31I15-PC2 series · Sensing Distance: 150mm / 500mm · Operating Voltage: 10...30V DC

IP66
Ingress Protection



①②



③④

KEY SPECIFICATIONS

SENSING DISTANCE **150mm / 500mm**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **M18*1mm**	RESPONSE TIME **<2ms**

FEATURES

- Quick response time
- Infrared light source
- Strong light immunity capability

MODEL CODES

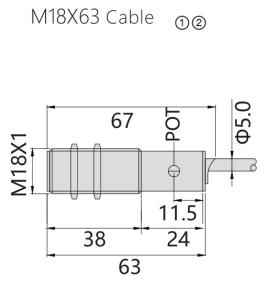
Output Type	①	②	③	④
NPN N.O+N.C	**BFDP-M18-N31I15-PC2** SKU 10104756	**BFDP-M18-N31I50-PC2** SKU 10104758	**BFDM-M18-N31I15-PC2** SKU 10104760	**BFDM-M18-N31I50-PC2** SKU 10104762
PNP N.O+N.C	**BFDP-M18-P31I15-PC2** SKU 10104757	**BFDP-M18-P31I50-PC2** SKU 10104759	**BFDM-M18-P31I15-PC2** SKU 10104761	**BFDM-M18-P31I50-PC2** SKU 10104763

TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	①: 150mm ②: 500mm ③: 150mm ④: 500mm
Detection type	Diffuse reflection
Switching frequency	500Hz
Operating voltage	10...30V DC
Light source	Infrared light 880nm
Response time	<2ms
Load current	≤200mA
Power-on delay	<300ms
Sensitivity adjustment	Single-turn potentiometer

Light immunity	<5000Lux
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	①: PBT ②: PBT ③: Brass, nickel-plated ④: Brass, nickel-plated
Ingress protection	IP66
Lens material	PMMA
Operation indicator	Yellow
Connection	2m PVC Cable, 4*0.25mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

M18 Cylindrical Photoelectric Sensor

BFDP-M18-N31I15-S124 series · Sensing Distance: 150mm / 500mm · Operating Voltage: 10...30V DC

IP66
Ingress Protection



①②



③④

KEY SPECIFICATIONS

SENSING DISTANCE **150mm / 500mm**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **M18*1mm**	RESPONSE TIME **<2ms**

FEATURES

- Quick response time
- Infrared light source
- Strong light immunity capability

MODEL CODES

Output Type	①	②	③	④
NPN N.O+N.C	**BFDP-M18-N31I15-S124** SKU 10104764	**BFDP-M18-N31I50-S124** SKU 10104766	**BFDM-M18-N31I15-S124** SKU 10104768	**BFDM-M18-N31I50-S124** SKU 10104770
PNP N.O+N.C	**BFDP-M18-P31I15-S124** SKU 10104765	**BFDP-M18-P31I50-S124** SKU 10104767	**BFDM-M18-P31I15-S124** SKU 10104769	**BFDM-M18-P31I50-S124** SKU 10104771

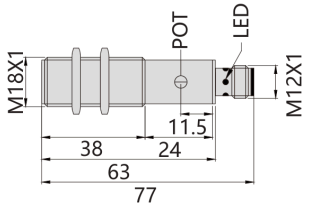
TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	①: 150mm ②: 500mm ③: 150mm ④: 500mm
Detection type	Diffuse reflection
Switching frequency	500Hz
Operating voltage	10...30V DC
Light source	Infrared light 880nm
Response time	<2ms
Load current	≤200mA
Power-on delay	<300ms
Sensitivity adjustment	Single-turn potentiometer

Light immunity	<5000Lux
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	①: PBT ②: PBT ③: Brass, nickel-plated ④: Brass, nickel-plated
Ingress protection	IP66
Lens material	PMMA
Operation indicator	Yellow
Connection	M12 Connector
Accessories	M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

M18X77 Connector ①②



All dimensions in mm.

PHOTOELECTRIC

Q20 Rectangular Photoelectric Sensor

BFTP-R20-R50-PC2-C series · Sensing Distance: 500mm · Operating Voltage: 10-30VDC+10%

IP66
Ingress Protection



① ②

KEY SPECIFICATIONS

SENSING DISTANCE **500mm**	OPERATING VOLTAGE **10-30VDC+10%**
RESPONSE TIME **1ms (Action/Reset)**	AMBIENT TEMP. **-25~+55°C**
INGRESS PROTECTION **IP66**	

MODEL CODES

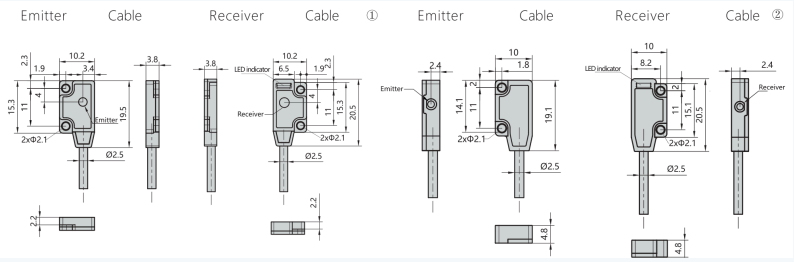
Output Type	①	②
Emitter	**BFTP-R20-E1R50-PC2** SKU 10105292	**BFTP-R20-E1R50-PC2-C** SKU 10105297
NPN N.O	**BFTP-R20-N11R50-PC2** SKU 10105293	**BFTP-R20-N11R50-PC2-C** SKU 10105298
NPN N.C	**BFTP-R20-N21R50-PC2** SKU 10105294	**BFTP-R20-N21R50-PC2-C** SKU 10105299
PNP N.O	**BFTP-R20-P11R50-PC2** SKU 10105295	**BFTP-R20-P11R50-PC2-C** SKU 10105300
PNP N.C	**BFTP-R20-P21R50-PC2** SKU 10105296	**BFTP-R20-P21R50-PC2-C** SKU 10105301

TECHNICAL DATA

Size	①: Emitter: 19.5*10.2*3.8mm Receiver: 20.5*10.2*3.8mm ②: Emitter: 19.1*10*4.8mm Receiver: 20.5*10*4.8mm
Sensing direction	①: Front sensing ②: Side sensing
Sensing distance	500mm
Detecting objects	Φ2mm opaque
Hysteresis	<15% of action distance
Response time	1ms (Action/Reset)
Light source	Red LED
Operating voltage	10-30VDC+10%
Voltage drop	<2VDC
Load current	50mA
Consumption	≤25mA
LED indicator	Output: Yellow; /Power: Green

Switch protection	Reverse protection, short-circuit
Ingress protection	IP66
Light immunity	Incandescent lamp: <3000lx, Sunlight: <10000lx
Ambient temperature	-25~+55°C
Ambient humidity	35-85%RH
Vibration resistance	Frequency 10~500HZ Dual amplitude 3mm(MAX:20G), X, Y, Z two hours in each direction
Shock resistance	Acceleration 500m/s²(50G)X, Y, Z three times in each direction
Connection	Emitter: 2m PVC gray-white cable; Receiver: 2m PVC Black cable
Housing material	ABS

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

Q20 Rectangular Photoelectric Sensor

BFTP-R20-R50-Z83_3P-Z83-C_3P series · Sensing Distance: 500mm · Operating Voltage: 10-30VDC+10%

IP66
Ingress Protection



① ②

KEY SPECIFICATIONS

SENSING DISTANCE **500mm**	OPERATING VOLTAGE **10-30VDC+10%**
RESPONSE TIME **1ms (Action/Reset)**	AMBIENT TEMP. **-25~+55°C**
INGRESS PROTECTION **IP66**	

MODEL CODES

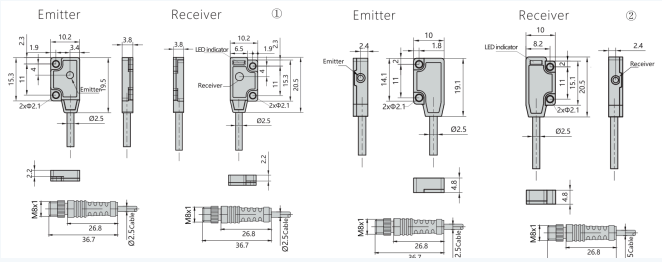
Output Type	①	②
Emitter	**BFTP-R20-E1R50-Z83/3P** SKU 10105312	**BFTP-R20-E1R50-Z83-C/3P** SKU 10105317
NPN N.O	**BFTP-R20-N11R50-Z83/3P** SKU 10105313	**BFTP-R20-N11R50-Z83-C/3P** SKU 10105318
NPN N.C	**BFTP-R20-N21R50-Z83/3P** SKU 10105314	**BFTP-R20-N21R50-Z83-C/3P** SKU 10105319
PNP N.O	**BFTP-R20-P11R50-Z83/3P** SKU 10105315	**BFTP-R20-P11R50-Z83-C/3P** SKU 10105320
PNP N.C	**BFTP-R20-P21R50-Z83/3P** SKU 10105316	**BFTP-R20-P21R50-Z83-C/3P** SKU 10105321

TECHNICAL DATA

Size	①: Emitter: 19.5*10.2*3.8mm Receiver: 20.5*10.2*3.8mm ②: Emitter: 19.1*10*4.8mm Receiver: 20.5*10*4.8mm
Sensing direction	①: Front sensing ②: Side sensing
Sensing distance	500mm
Detecting objects	Φ2mm opaque
Hysteresis	<15% of action distance
Response time	1ms (Action/Reset)
Light source	Red LED
Operating voltage	10-30VDC+10%
Voltage drop	<2VDC
Load current	50mA
Consumption	≤25mA
LED indicator	Output: Yellow; /Power: Green

Switch protection	Reverse protection, short-circuit
Ingress protection	IP66
Light immunity	Incandescent lamp: <3000lx, Sunlight: <10000lx
Ambient temperature	-25~+55°C
Ambient humidity	35-85%RH
Vibration resistance	Frequency 10~500HZ Dual amplitude 3mm(MAX:20G), X, Y, Z two hours in each direction
Shock resistance	Acceleration 500m/s²(50G)X, Y, Z three times in each direction
Connection	Emitter: Gray M8, 0.3m Cable with connector(3 pin); Receiver: Black M8, 0.3m Cable with connector(3 pin)
Housing material	ABS

DIMENSIONAL DRAWINGS



All dimensions in mm.

Q20 Rectangular Photoelectric Sensor

BFTP-R20-R50-Z84-C series · Sensing Distance: 500mm · Operating Voltage: 10-30VDC+10%

IP66
Ingress Protection



① ②

KEY SPECIFICATIONS

SENSING DISTANCE **500mm**	OPERATING VOLTAGE **10-30VDC+10%**
RESPONSE TIME **1ms (Action/Reset)**	AMBIENT TEMP. **-25~+55°C**
INGRESS PROTECTION **IP66**	

MODEL CODES

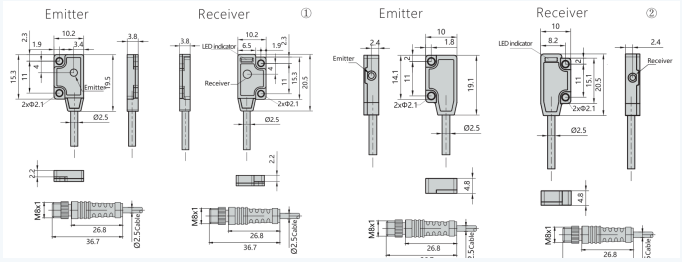
Output Type	①	②
Emitter	**BFTP-R20-E1R50-Z84** SKU 10105302	**BFTP-R20-E1R50-Z84-C** SKU 10105307
NPN N.O	**BFTP-R20-N11R50-Z84** SKU 10105303	**BFTP-R20-N11R50-Z84-C** SKU 10105308
NPN N.C	**BFTP-R20-N21R50-Z84** SKU 10105304	**BFTP-R20-N21R50-Z84-C** SKU 10105309
PNP N.O	**BFTP-R20-P11R50-Z84** SKU 10105305	**BFTP-R20-P11R50-Z84-C** SKU 10105310
PNP N.C	**BFTP-R20-P21R50-Z84** SKU 10105306	**BFTP-R20-P21R50-Z84-C** SKU 10105311

TECHNICAL DATA

Size	①: Emitter: 19.5*10.2*3.8mm Receiver: 20.5*10.2*3.8mm ②: Emitter: 19.1*10*4.8mm Receiver: 20.5*10*4.8mm
Sensing direction	①: Front sensing ②: Side sensing
Sensing distance	500mm
Detecting objects	Φ2mm opaque
Hysteresis	<15% of action distance
Response time	1ms (Action/Reset)
Light source	Red LED
Operating voltage	10-30VDC+10%
Voltage drop	<2VDC
Load current	50mA
Consumption	≤25mA
LED indicator	Output: Yellow; /Power: Green

Switch protection	Reverse protection, short-circuit
Ingress protection	IP66
Light immunity	Incandescent lamp: <3000lx, Sunlight: <10000lx
Ambient temperature	-25~+55°C
Ambient humidity	35-85%RH
Vibration resistance	Frequency 10~500HZ Dual amplitude 3mm(MAX:20G), X, Y, Z two hours in each direction
Shock resistance	Acceleration 500m/s²(50G)X, Y, Z three times in each direction
Connection	Emitter: Gray M8, 0.3m Cable with connector(4 pin); Receiver: Black M8, 0.3m Cable with connector(4 pin)
Housing material	ABS

DIMENSIONAL DRAWINGS



All dimensions in mm.

Q21 Rectangular Photoelectric Sensor

BFTM-R21-R100-PC2 series · Sensing Distance: 1m · Operating Voltage: 10-30V DC

IP67
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **1m**	OPERATING VOLTAGE **10–30V DC**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **–25...55°C**
HOUSING **23.4*13*7.5mm**	RESPONSE TIME **≤2s**

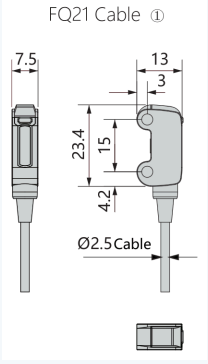
MODEL CODES

Output Type	Model Code
Emitter	**BFTM-R21-E1R100-PC2** SKU 10105289
NPN N.O+N.C	**BFTM-R21-N31R100-PC2** SKU 10105290
PNP N.O+N.C	**BFTM-R21-P31R100-PC2** SKU 10105291

TECHNICAL DATA

Size	23.4*13*7.5mm	**Light immunity**	<5000Lux
Sensing distance	1m	**Ambient temperature**	-25...55°C
Detection type	Through-beam	**Ambient humidity**	35...85%
Switching frequency	500Hz	**Housing material**	Stainless Steel
Operating voltage	10-30V DC	**Lens material**	PC
Light source	Red light 650nm	**Ingress protection**	IP67
Response time	≤2s	**Operation indicator**	Output: Yellow/Power: Green
Load current	100mA	**Connection**	2m PVC Cable,4*0.09mm²/2*0.08mm²
Power-on delay	≤300ms	**Accessories**	None
Sensitivity adjustment	None		

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

Q21 Rectangular Photoelectric Sensor

BFTP-R21-L500-R100-PC2 series · Sensing Distance: 1m / 5m · Operating Voltage: 10-30V DC

IP67
Ingress Protection



① ②

KEY SPECIFICATIONS

SENSING DISTANCE **1m / 5m**	OPERATING VOLTAGE **10–30V DC**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **–25...55°C**
HOUSING **21*14*8mm / 21*15*8mm**	RESPONSE TIME **≤2s**

MODEL CODES

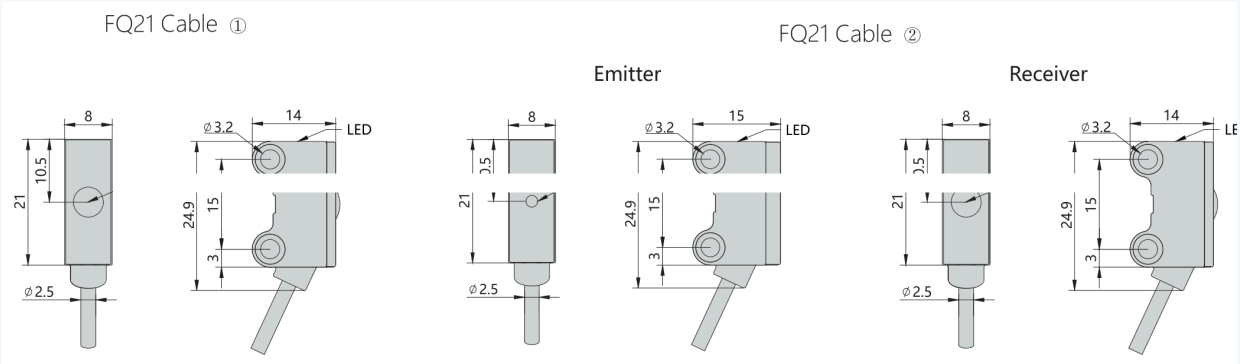
Output Type	21*14*8mm · 1m ①	21*15*8mm · 5m ②
Emitter	**BFTP-R21-E1R100-PC2** SKU 10104868	**BFTP-R21-E1L500-PC2** SKU 10104871
NPN N.O+N.C	**BFTP-R21-N31R100-PC2** SKU 10104869	**BFTP-R21-N31L500-PC2** SKU 10104872
PNP N.O+N.C	**BFTP-R21-P31R100-PC2** SKU 10104870	**BFTP-R21-P31L500-PC2** SKU 10104873

TECHNICAL DATA

Size	**21*14*8mm · 1m:** 21*14*8mm **21*15*8mm · 5m:** 21*15*8mm
Sensing distance	**21*14*8mm · 1m:** 1m **21*15*8mm · 5m:** 5m
Detection type	Through-beam
Switching frequency	500Hz
Operating voltage	10-30V DC
Light source	**21*14*8mm · 1m:** Red light 650nm **21*15*8mm · 5m:** Laser 650nm
Response time	≤2s
Load current	50mA

Power-on delay	≤300ms
Sensitivity adjustment	None
Light immunity	<5000Lux
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	ABS
Lens material	PC
Ingress protection	IP67
Operation indicator	Output: Yellow/Power: Green
Connection	2m PVC Cable,4*0.09mm²/2*0.08mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

Q21 Rectangular Photoelectric Sensor

BFBP-R21-R8.5-PC2 series · Sensing Distance: 15...85mm · Operating Voltage: 10...30VDC

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **15...85mm**	OPERATING VOLTAGE **10...30VDC**
SWITCHING FREQ. **1000Hz**	AMBIENT TEMP. **-25...55°C**
INGRESS PROTECTION **IP65**	

MODEL CODES

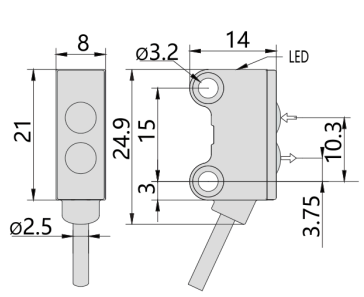
Output Type	Model Code
NPN N.O	**BFBP-R21-N11R8.5-PC2** SKU 10105077
NPN N.C	**BFBP-R21-N21R8.5-PC2** SKU 10105078
PNP N.O	**BFBP-R21-P11R8.5-PC2** SKU 10105079
PNP N.C	**BFBP-R21-P21R8.5-PC2** SKU 10105080

TECHNICAL DATA

Sensing distance	15...85mm	**Sensitivity adjustment**	None
Detection type	Background suppression	**Ambient temperature**	-25...55°C
Switching frequency	1000Hz	**Ingress protection**	IP65
Operating voltage	10...30VDC	**Operation indicator**	Output: Yellow/Power: Green
Light source	Red light 621nm	**Connection**	Cable
Load current	50	**Accessories**	None

DIMENSIONAL DRAWINGS

FQ21 Cable ①



All dimensions in mm.

PHOTOELECTRIC

Q21 Rectangular Photoelectric Sensor

BFBM-R21-R3.0-PC2 series · Sensing Distance: 30mm · Operating Voltage: 10...30V DC

IP67
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **30mm**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **1000Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **23.4*13*7.5mm**	INGRESS PROTECTION **IP67**

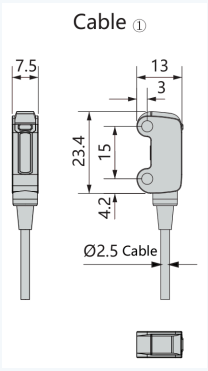
MODEL CODES

Output Type	Model Code
NPN N.O+N.C	**BFBM-R21-N31R3.0-PC2** SKU 10105236
PNP N.O+N.C	**BFBM-R21-P31R3.0-PC2** SKU 10105237

TECHNICAL DATA

Size	23.4*13*7.5mm	**Light immunity**	<5000Lux
Sensing distance	30mm	**Blind distance**	<2mm
Detection type	Background suppression	**Ambient temperature**	-25...55°C
Switching frequency	1000Hz	**Ambient humidity**	35...85%
Operating voltage	10...30V DC	**Housing material**	Stainless Steel
Light type	Red Light 621nm	**Ingress protection**	IP67
Reaction time	≤1ms	**Lens material**	PC
Load current	100mA	**LED indicator**	Output: Yellow/Power: Green
Power-on delay	<300ms	**Connection**	2m PVC Cable, 4*0.08mm²
Sensitivity adjustment	None	**Accessories**	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

Q23 Rectangular Photoelectric Sensor — TOF

BFDP-R23-LTI100-PC2 series · Sensing Distance: 20...1000mm · Operating Voltage: 10...30V DC

IP66
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **20...1000mm**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **2Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **23*26.6*6.5mm**	RESPONSE TIME **500ms**

FEATURES

- TOF (time-of-flight) measuring principle

MODEL CODES

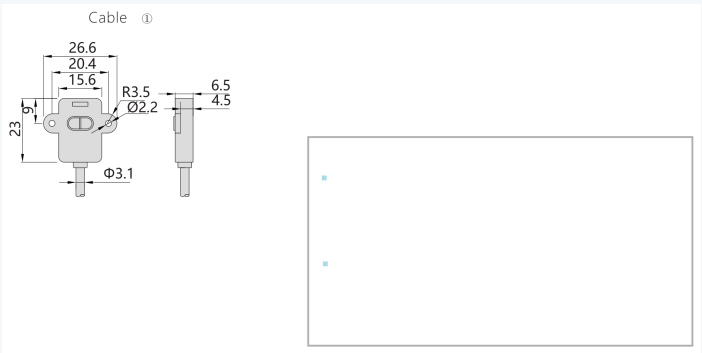
Output Type	Model Code
NPN N.O	**BFDP-R23-N11LTI100-PC2** SKU 10105138
NPN N.C	**BFDP-R23-N21LTI100-PC2** SKU 10105139
PNP N.O	**BFDP-R23-P11LTI100-PC2** SKU 10105140
PNP N.C	**BFDP-R23-P21LTI100-PC2** SKU 10105141

TECHNICAL DATA

Size	23*26.6*6.5mm
Sensing distance	20...1000mm
Switching frequency	2Hz
Operating voltage	10...30V DC
Light source	Infrared light 940nm
Response time	500ms
No-load current	≤30mA
Power-on delay	—
Sensitivity adjustment	White wire short-circuit connection, blue wire teaching

Light immunity	≤5000Lux
Ambient temperature	-25...55°C
Storage temperature	-40...70°C
Housing material	PBT
Ingress protection	IP66
Lens material	PMMA
Operation indicator	Power/teaching--green, output -- yellow
Connection	2m PVC Cable, 4*0.09mm²
Accessories	None

DIMENSIONAL DRAWINGS

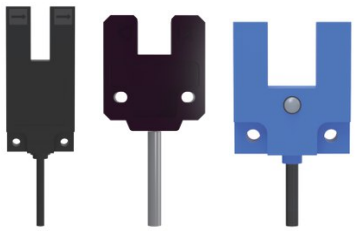


All dimensions in mm.

PHOTOELECTRIC

Q25 / Q28 / Q36 Rectangular Photoelectric Sensor

BFGP-R25-I07-I10-I15-PC2 series · Sensing Distance: 7mm / 10mm / 15mm · Operating Voltage: 10...30V DC



KEY SPECIFICATIONS

SENSING DISTANCE **7mm / 10mm / 15mm**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **500Hz / 150Hz**	AMBIENT TEMP. **-25...55°C / -25~+55°C**
RESPONSE TIME **<2ms / <7ms**	

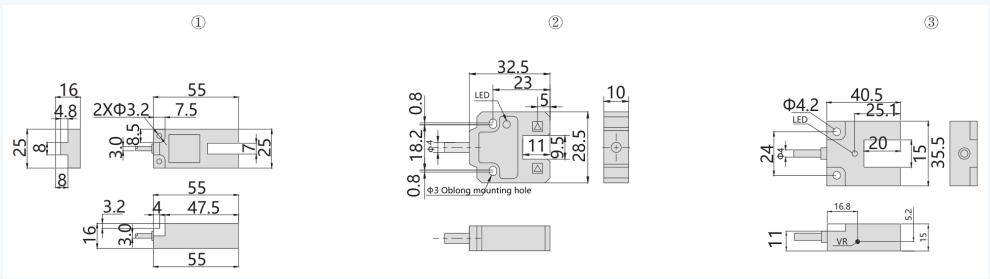
MODEL CODES

Output Type	①	②	③
NPN N.O+N.C	**BFGP-R25-N31I07-PC2** SKU 10105398	**BFGP-R28-N31I10-PC2** SKU 10105399	**BFGP-R36-N31I15-PC2** SKU 10105401
PNP N.O+N.C	**BFGP-R25-P31I07-PC2** SKU 10105219	**BFGP-R28-P31I10-PC2** SKU 10105400	**BFGP-R36-P31I15-PC2** SKU 10105402

TECHNICAL DATA

Size	①: 55*25*16mm ②: 32.5*28.5*10mm ③: 40.5*24*15mm
Sensing distance	①: 7mm ②: 10mm ③: 15mm
Operating voltage	10...30V DC
Switching frequency	①: 500Hz ②: 150Hz ③: 500Hz
Light source	①: Infrared light 880nm ②: Infrared light 940nm ③: Infrared light 940nm
Response time	①: <2ms ②: <7ms ③: <2ms
Load current	①: 100mA ②: ≤150mA ③: 100mA
Power-on delay	①: <300ms ②: <200ms ③: <300ms
Sensitivity adjustment	①: None ②: None ③: Multi-turn potentiometer
Light immunity	<5000Lux
Ambient temperature	①: -25...55°C ②: -25~+55°C ③: -25...55°C
Ambient humidity	①: 35...85% ②: 35%~85% ③: 35...85%
Housing material	①: ABS ②: PC ③: ABS
Lens material	①: PMMA ②: PC ③: PC
Operation indicator	Yellow: output
Connection	①: 2m PVC Cable, 4*0.15mm² ②: 2m PVC Cable 4*0.25mm² ③: 2m PVC Cable 4*0.25mm²

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

Q26 Rectangular Photoelectric Sensor

BFGP-R26-I13-PC2 series · Housing: 26*16*17.2mm · Ingress Protection: IP50

IP50
Ingress Protection



KEY SPECIFICATIONS

HOUSING **26*16*17.2mm**	INGRESS PROTECTION **IP50**
NO-LOAD CURRENT **<20mA(24V)**	LOAD CURRENT **≤100mA**

MODEL CODES

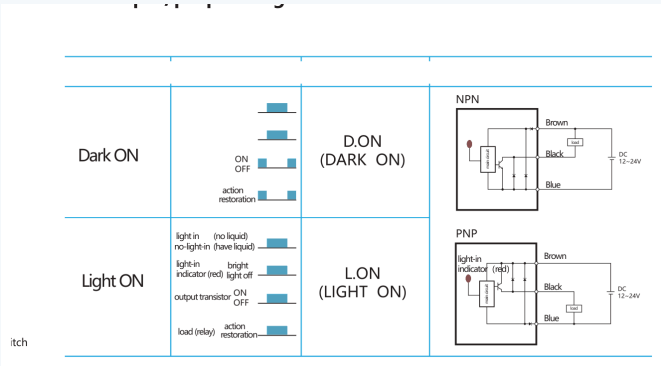
Output Type	Model Code
NPN N.O+N.C	**BFGP-R26-N31I13-PC2** SKU 10105406
PNP N.O+N.C	**BFGP-R26-P31I13-PC2** SKU 10105223

TECHNICAL DATA

Size	26*16*17.2mm
Operating voltage	DC12～24V±10% Ripple P...P <5%
Applicable pipe type	Exterior diameter Φ6-13mm, thickness 1mm, transparent pipe, made of FEP(fluororesin) or other materials with same transparency level
Target sensing object	Liquid inside the pipe(Detection may fail if the liquid viscosity is too high or the liquid contains suspended solids)
Light source	Infrared light source 940nm
No-load current	<20mA(24V)
Load current	≤100mA
Voltage drop	≤1V
Light immunity	Incandesent light/sunlight: <3000Lux

LED indicator	Light up when entering light (Red LED)
Vibration resistance	10-500HZ, single amplitude,1.0mm or acceleration 150m/S², 3 times at each of X, Y, Z axis(11min duration per time)
Shock resistance	500m/s² X, Y, Z 3 times in each direction
Ambient temperature	Operation: -10～+55°C storage: -25～+65°C (no condensation, no frozen ice)
Ambient humidity	Operation: 5～85%RH storage: 5～95%RH (no condensation)
Ingress protection	IP50
Housing material	PC
Lens material	PC
Connection	2m PVC cable 3*0.15mm²
Accessories	2pcs strapping ribbon

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

Q30 Rectangular Photoelectric Sensor

BFBP-R30-R3.0-PC2 series · Sensing Distance: 1...30mm · Operating Voltage: 12...24V DC

IP66
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **1...30mm**	OPERATING VOLTAGE **12...24V DC**
AMBIENT TEMP. **-25...55°C**	HOUSING **30*15*4.5mm**
INGRESS PROTECTION **IP66**	

MODEL CODES

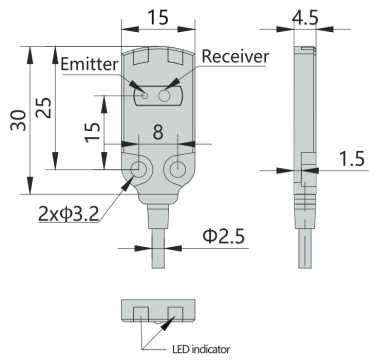
Output Type	Model Code
NPN N.O+N.C	**BFBP-R30-N31R3.0-PC2** SKU 10105350
PNP N.O+N.C	**BFBP-R30-P31R3.0-PC2** SKU 10105351

TECHNICAL DATA

Size	30*15*4.5mm
Sensing distance	1...30mm
Detection type	Background suppression
Operating voltage	12...24V DC
Light type	Red Light
Reaction time	≤1ms
Load current	≤30mA
No-load current	≤25mA
Blind distance	<1mm

Light immunity	Incandescent lamp≤3000lx; Sunlight: ≤10000lx
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	ABS
Ingress protection	IP66
LED indicator	Output: Yellow/Power: Green
Connection	2m PVC Cable, 4*0.09mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

Q31 Rectangular Photoelectric Sensor

BFBP-R31-B25-R10-PC2-S84 series · Operating Voltage: 10...30V DC · Switching Freq.: 1000Hz

IP65
Ingress Protection



① ② ③ ④

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30V DC**	SWITCHING FREQ. **1000Hz**
AMBIENT TEMP. **-25...55°C**	HOUSING **31*20*11mm**
INGRESS PROTECTION **IP65**	

FEATURES

- No need to distinguish the target object color Quick response Reverse connection protection

MODEL CODES

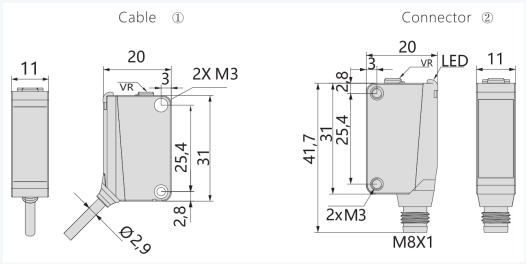
Output Type	①	②	③	④
NPN N.O+N.C	**BFBP-R31-N31R10-PC2** SKU 10105352	**BFBP-R31-N31R10-S84** SKU 10105354	**BFBP-R31-N31B25-PC2** SKU 10105279	**BFBP-R31-N31B25-S84** SKU 10105281
PNP N.O+N.C	**BFBP-R31-P31R10-PC2** SKU 10105353	**BFBP-R31-P31R10-S84** SKU 10105355	**BFBP-R31-P31B25-PC2** SKU 10105280	**BFBP-R31-P31B25-S84** SKU 10105282

TECHNICAL DATA

Size	31*20*11mm
Sensing distance	①: 10...100mm ②: 10...100mm ③: 10...250mm ④: 10...250mm
Detection type	Background suppression
Switching frequency	1000Hz
Operating voltage	10...30V DC
Light type	①: Red light 650nm ②: Red light 650nm ③: Blue light 465nm ④: Blue light 465nm
Reaction time	≤1ms
Blind distance	<10mm
Spot size	About 6mmx60mm Strip (at 100mm)
Load current	100mA
Power-on delay	<300ms
Adjustment	Multi-turn potentiometer

Light immunity	<5000Lux
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	ABS
Ingress protection	IP65
Lens material	PC
Operation indicator	Output: Yellow/Power: Green
Connection	①: 2m PVC Cable, 4*0.15mm² ②: M8 Connector ③: 2m PVC Cable, 4*0.15mm² ④: M8 Connector
Accessories	①: None ②: M8 4 pin cable with connector ③: None ④: M8 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

Q31 Rectangular Photoelectric Sensor

BFRP-R31.T-R200-PC2 series · Sensing Distance: 0...2000mm · Operating Voltage: 10...30V DC

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **0...2000mm**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...+55°C**
HOUSING **32.1*18*12.8mm**	INGRESS PROTECTION **IP65**

FEATURES

- Co-axial light
- Detection of transparent objects, highly reflective objects

MODEL CODES

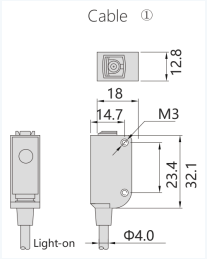
Output Type	Model Code
NPN N.O	**BFRP-R31.T-N11R200-PC2** SKU 10104953
NPN N.C	**BFRP-R31.T-N21R200-PC2** SKU 10104954
PNP N.O	**BFRP-R31.T-P11R200-PC2** SKU 10104955
PNP N.C	**BFRP-R31.T-P21R200-PC2** SKU 10104956

TECHNICAL DATA

Size	32.1*18*12.8mm
Sensing distance	0...2000mm
Detection type	Retro-reflection type(transparent objects detection)
Switching frequency	500Hz
Operating voltage	10...30V DC
Light type	Red Light 650nm
Reaction time	≤2ms
Spot diameter	<10mm
Load current	100mA
Power-on delay	<300ms
Adjustment	Aim at the reflector mirror and continuously press button for 1s duration

Light immunity	<5000Lux
Ambient temperature	-25...+55°C
Ambient humidity	35...85%
Housing material	ABS
Ingress protection	IP65
Lens material	PMMA
LED indicator	Output: Red/Power: Yellow
Connection	2m PVC Cable, 3*0.18mm²
Accessories	FPHL-08

DIMENSIONAL DRAWINGS



All dimensions in mm.

Q31 Rectangular Photoelectric Sensor

BFDP-R31-I100-PC2 series · Sensing Distance: 1m · Operating Voltage: 10...30V DC

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **1m**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **31*20*11mm**	RESPONSE TIME **≤2ms**

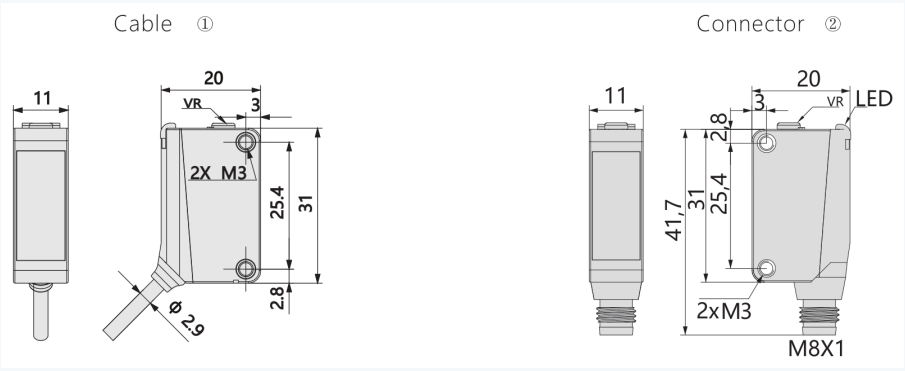
MODEL CODES

Output Type	Model Code
NPN N.O+N.C	**BFDP-R31-N31I100-PC2** SKU 10105326
PNP N.O+N.C	**BFDP-R31-P31I100-PC2** SKU 10105327

TECHNICAL DATA

Size	31*20*11mm	**Light immunity**	<5000Lux
Sensing distance	1m	**Ambient temperature**	-25...55°C
Detection type	Diffuse reflection	**Ambient humidity**	35...85%
Switching frequency	500Hz	**Housing material**	ABS
Operating voltage	10...30V DC	**Ingress protection**	IP65
Light source	Infrared light 850nm	**Lens material**	PC
Response time	≤2ms	**Operation indicator**	Output: Yellow/Power: Green
Load current	100mA	**Connection**	2m PVC Cable, 4*0.15mm²
Power-on delay	<300ms	**Accessories**	None
Sensitivity adjustment	Single-turn potentiometer		

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

Q31 Rectangular Photoelectric Sensor

BFDP-R31-R100-PC2-S84 series · Sensing Distance: 1m · Operating Voltage: 10...30V DC

IP65
Ingress Protection



① ②

KEY SPECIFICATIONS

SENSING DISTANCE **1m**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **31*20*11mm**	RESPONSE TIME **≤2ms**

MODEL CODES

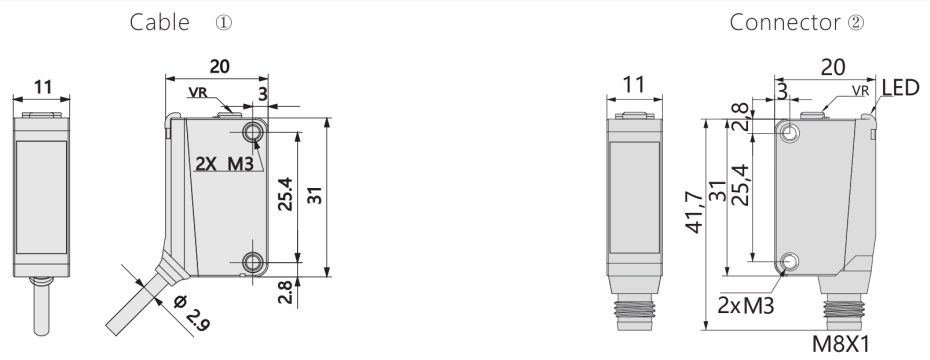
Output Type	①	②
NPN N.O+N.C	**BFDP-R31-N31R100-PC2** SKU 10105248	**BFDP-R31-N31R100-S84** SKU 10105250
PNP N.O+N.C	**BFDP-R31-P31R100-PC2** SKU 10105249	**BFDP-R31-P31R100-S84** SKU 10105251

TECHNICAL DATA

Size	31*20*11mm
Sensing distance	1m
Detection type	Diffuse reflection
Switching frequency	500Hz
Operating voltage	10...30V DC
Light source	Red Light 650nm
Response time	≤2ms
Load current	100mA
Power-on delay	<300ms
Sensitivity adjustment	Single-turn potentiometer
Light immunity	<5000Lux

Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	ABS
Ingress protection	IP65
Lens material	PC
Operation indicator	Output: Yellow/Power: Green
Connection	①: 2m PVC Cable, 4*0.15mm² ②: M8 Connector
Accessories	①: None ②: M8 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

Q31 Rectangular Photoelectric Sensor

BFBP-R31-R5.0-PC2-S84 series · Sensing Distance: 2...50mm · Operating Voltage: 10...30V DC

IP65
Ingress Protection



① ②

KEY SPECIFICATIONS

SENSING DISTANCE **2...50mm**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **1000Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **31*20*11mm**	RESPONSE TIME **≤1ms**

FEATURES

- No need to distinguish the color of the object to be measured
- Fast response speed
- Reverse protection

MODEL CODES

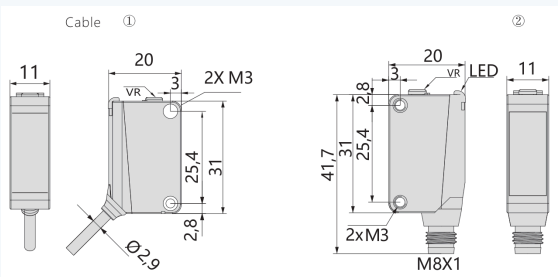
Output Type	①	②
NPN N.O+N.C	**BFBP-R31-N31R5.0-PC2** SKU 10105358	**BFBP-R31-N31R5.0-S84** SKU 10105360
PNP N.O+N.C	**BFBP-R31-P31R5.0-PC2** SKU 10105359	**BFBP-R31-P31R5.0-S84** SKU 10105361

TECHNICAL DATA

Size	31*20*11mm
Sensing distance	2...50mm
Detection type	Background suppression
Switching frequency	1000Hz
Operating voltage	10...30V DC
Light source	Red light 650nm
Response time	≤1ms
Blind distance	<10mm
Light spot size	About ϕ2mm (50mm)
Load current	100mA
Power-on delay	<300ms
Sensitivity adjustment	Multi-turn potentiometer

Light immunity	<5000Lux
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	ABS
Ingress protection	IP65
Lens material	PC
Operation indicator	Output: Yellow/Power: Green
Connection	①: 2m PVC Cable, 4*0.15mm² ②: M8Connector
Accessories	①: None ②: M8 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

Q31 Rectangular Photoelectric Sensor

BFRP-R31-I200-I400-PC2-N series · Sensing Distance: 2m / 4m · Operating Voltage: 10...30V DC

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE 2m / 4m	OPERATING VOLTAGE 10...30V DC
SWITCHING FREQ. 500Hz	AMBIENT TEMP. -25...55°C
HOUSING 32.1*18*12.8mm	RESPONSE TIME <2ms

FEATURES

- Quick response time
- Infrared light source
- Strong light immunity capability

MODEL CODES

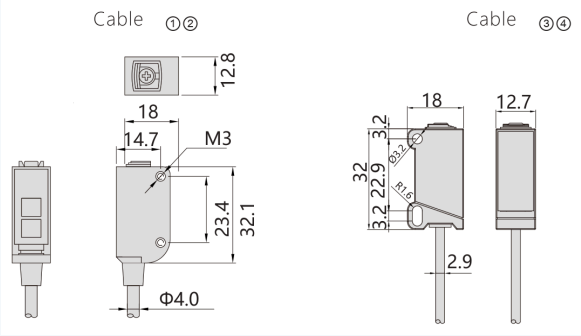
Output Type	①	②	③	④
NPN N.O+N.C	BFRP-R31-N31I200-PC2 SKU 10104886	BFRP-R31-N31I400-PC2 SKU 10104888	BFRP-R31-N31I200-PC2-N SKU 10104890	BFRP-R31-N31I400-PC2-N SKU 10104892
PNP N.O+N.C	BFRP-R31-P31I200-PC2 SKU 10104887	BFRP-R31-P31I400-PC2 SKU 10104889	BFRP-R31-P31I200-PC2-N SKU 10104891	BFRP-R31-P31I400-PC2-N SKU 10105218

TECHNICAL DATA

Size	32.1*18*12.8mm
Sensing distance	①: 2m ②: 4m ③: 2m ④: 4m
Detection type	Retro-reflection
Switching frequency	500Hz
Operating voltage	10...30V DC
Light source	Infrared light 880nm
Response time	<2ms
Load current	100mA
Power-on delay	<300ms

Sensitivity adjustment	Single-turn potentiometer
Light immunity	<5000Lux
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	ABS
Ingress protection	IP65
Lens material	PMMA
Operation indicator	Output: Red/Power: Yellow
Connection	2m PVC Cable, 4*0.25mm²
Accessories	FPHL-08

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

Q31 Rectangular Photoelectric Sensor

BFRP-R31-I200-I400-R200-R400-S84-1-Y series · Sensing Distance: 2m / 4m · Operating Voltage: 10...30V DC

IP65
Ingress Protection



①② ③④

KEY SPECIFICATIONS

SENSING DISTANCE **2m / 4m**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **31*20*11mm**	RESPONSE TIME **<2ms**

FEATURES

- Long detection distance
- Wide detection range
- Quick response time

MODEL CODES

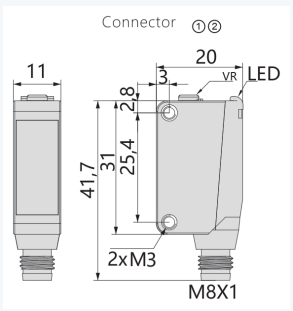
Output Type	①	②	③	④
NPN N.O+N.C	BFRP-R31-N31R200-S84-1 SKU 10105338	BFRP-R31-N31R400-S84-1 SKU 10105340	BFRP-R31-N31I200-S84-Y SKU 10105342	BFRP-R31-N31I400-S84-Y SKU 10105344
PNP N.O+N.C	BFRP-R31-P31R200-S84-1 SKU 10105339	BFRP-R31-P31R400-S84-1 SKU 10105341	BFRP-R31-P31I200-S84-Y SKU 10105343	BFRP-R31-P31I400-S84-Y SKU 10105345

TECHNICAL DATA

Size	31*20*11mm
Sensing distance	①: 2m ②: 4m ③: 2m ④: 4m
Detection type	Retro-reflective
Switching frequency	500Hz
Operating voltage	10...30V DC
Light source	①: Red Light 650nm ②: Red Light 650nm ③: Infrared light 850nm ④: Infrared light 850nm
Response time	<2ms
Load current	100mA

Power-on delay	<300ms
Sensitivity adjustment	Single-turn potentiometer
Light immunity	<5000Lux
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	ABS
Ingress protection	IP65
Lens material	PC
Operation indicator	Output: Yellow/Power: Green
Connection	M8 Connector
Accessories	M8 4 pin cable with connector/FPHL-08

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

Q31 Rectangular Photoelectric Sensor

BFRP-R31-L200-L400-PC2-S84 series · Sensing Distance: 2m / 4m · Operating Voltage: 10...30V DC

IP65
Ingress Protection



①② ③④

KEY SPECIFICATIONS

SENSING DISTANCE **2m / 4m**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **31*20*11mm**	RESPONSE TIME **<2ms**

FEATURES

- Long detection distance
- Wide detection range
- Quick response time

MODEL CODES

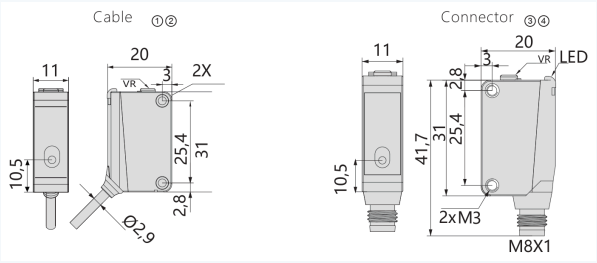
Output Type	①	②	③	④
NPN N.O+N.C	BFRP-R31-N31L200-PC2 SKU 10105346	BFRP-R31-N31L400-PC2 SKU 10105256	BFRP-R31-N31L200-S84 SKU 10105348	BFRP-R31-N31L400-S84 SKU 10105258
PNP N.O+N.C	BFRP-R31-P31L200-PC2 SKU 10105347	BFRP-R31-P31L400-PC2 SKU 10105257	BFRP-R31-P31L200-S84 SKU 10105349	BFRP-R31-P31L400-S84 SKU 10105259

TECHNICAL DATA

Size	31*20*11mm
Sensing distance	①: 2m ②: 4m ③: 2m ④: 4m
Detection type	Retro-reflective
Switching frequency	500Hz
Operating voltage	10...30V DC
Light source	Laser 650nm
Response time	<2ms
Load current	100mA
Power-on delay	<300ms
Sensitivity adjustment	Single-turn potentiometer
Light immunity	<5000Lux
Ambient temperature	-25...55°C
Ambient humidity	35...85%

Housing material	ABS
Ingress protection	IP65
Lens material	PC
Operation indicator	Output: Yellow/Power: Green
Connection	①: 2m PVC Cable, 4*0.15mm²/2*0.25mm² ②: 2m PVC Cable, 4*0.15mm²/2*0.25mm² ③: M8 Connector ④: M8 Connector
Accessories	①: FPHL-08 ②: FPHL-08 ③: M8 4 pin cable with connector/FPHL-08 ④: M8 4 pin cable with connector/FPHL-08

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

Q31 Rectangular Photoelectric Sensor

BFRP-R31.T-31R200-PC2 series · Sensing Distance: 2m · Operating Voltage: 10...30V DC

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **2m**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **32.1*18*12.8mm**	INGRESS PROTECTION **IP65**

FEATURES

- Co-axial light
- Detection of transparent objects, highly reflective objects

MODEL CODES

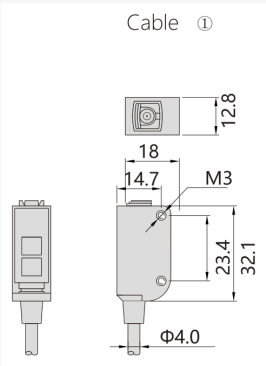
Output Type	Model Code
NPN N.O & PNP N.C	**BFRP-R31.T-PN31R200-PC2** SKU 10104952

TECHNICAL DATA

Size	32.1*18*12.8mm
Sensing distance	2m
Detection type	Retro-reflection type(transparent objects detection)
Switching frequency	500Hz
Operating voltage	10...30V DC
Light type	Red Light 650nm
Reaction time	≤2ms
Load current	100mA
Power-on delay	<300ms
Adjustment	Aim at the reflector mirror and continuously press button for >1s duration

Spot diameter	24x24mm at 1000mm detection distance
Light immunity	<5000Lux
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	ABS
Ingress protection	IP65
Lens material	PMMA
LED indicator	Output: Red/Power: Yellow
Connection	2m PVC Cable, 4*0.25mm²
Accessories	FPHL-08

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

Q31 Rectangular Photoelectric Sensor

BFTP-R31-I500-I1500-PC2-N series · Sensing Distance: 5m / 15m · Operating Voltage: 10...30V DC

IP65
Ingress Protection



① ② ③ ④

KEY SPECIFICATIONS

SENSING DISTANCE **5m / 15m**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...55°C**
RESPONSE TIME **<2ms**	INGRESS PROTECTION **IP65**

FEATURES

- Long detection distance
- Wide detection range
- Infrared light with high light immunity capability

MODEL CODES

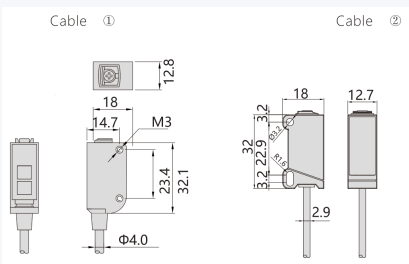
Output Type	①	②	③	④
Emitter	BFTP-R31-E1I500-PC2 SKU 10104898	BFTP-R31-E1I1500-PC2 SKU 10104901	BFTP-R31-E1I500-PC2-N SKU 10104904	BFTP-R31-E1I1500-PC2-N SKU 10104907
NPN N.O+N.C	BFTP-R31-N31I500-PC2 SKU 10104899	BFTP-R31-N31I1500-PC2 SKU 10104902	BFTP-R31-N31I500-PC2-N SKU 10104905	BFTP-R31-N31I1500-PC2-N SKU 10104908
PNP N.O+N.C	BFTP-R31-P31I500-PC2 SKU 10104900	BFTP-R31-P31I1500-PC2 SKU 10104903	BFTP-R31-P31I500-PC2-N SKU 10104906	BFTP-R31-P31I1500-PC2-N SKU 10104909

TECHNICAL DATA

Size	①: 32.1*18*12.8mm ②: 32.1*18*12.8mm ③: 32.1*18*12.7mm ④: 32.1*18*12.7mm
Sensing distance	①: 5m ②: 15m ③: 5m ④: 15m
Detection type	Through-beam
Switching frequency	500Hz
Operating voltage	10...30V DC
Light source	Infrared light 880nm
Response time	<2ms
Load current	100mA

Power-on delay	<300ms
Sensitivity adjustment	Single-turn potentiometer
Light immunity	<5000Lux
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	ABS
Ingress protection	IP65
Lens material	PMMA
Operation indicator	Output: Red/Power: Yellow
Connection	2m PVC Cable, 2*0.5mm², 4*0.25mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

Q31 Rectangular Photoelectric Sensor

BFTP-R31-I500-I1500-R500-R1500-PC2-1-Y series · Sensing Distance: 5m / 15m · Operating Voltage: 10...30V DC

IP65
Ingress Protection



① ② ③ ④

KEY SPECIFICATIONS

SENSING DISTANCE **5m / 15m**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **31*20*11mm**	RESPONSE TIME **≤2ms**

FEATURES

- Long detection distance
- Wide detection range
- Infrared light with high light immunity capability

MODEL CODES

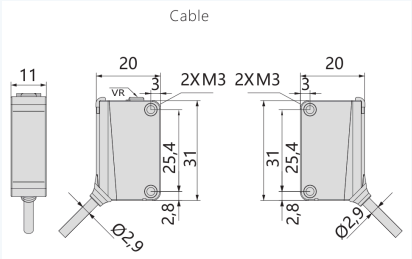
Output Type	①	②	③	④
Emitter	**BFTP-R31-E1R500-PC2-1** SKU 10104910	**BFTP-R31-E1R1500-PC2-1** SKU 10104913	**BFTP-R31-E1I500-PC2-Y** SKU 10104916	**BFTP-R31-E1I1500-PC2-Y** SKU 10104919
NPN N.O+N.C	**BFTP-R31-N31R500-PC2-1** SKU 10104911	**BFTP-R31-N31R1500-PC2-1** SKU 10104914	**BFTP-R31-N31I500-PC2-Y** SKU 10104917	**BFTP-R31-N31I1500-PC2-Y** SKU 10104920
PNP N.O+N.C	**BFTP-R31-P31R500-PC2-1** SKU 10104912	**BFTP-R31-P31R1500-PC2-1** SKU 10104915	**BFTP-R31-P31I500-PC2-Y** SKU 10104918	**BFTP-R31-P31I1500-PC2-Y** SKU 10104921

TECHNICAL DATA

Size	31*20*11mm
Sensing distance	①: 5m ②: 15m ③: 5m ④: 15m
Detection type	Through-beam
Switching frequency	500Hz
Operating voltage	10...30V DC
Light source	①: Red light 650nm ②: Red light 650nm ③: Infrared light 850nm ④: Infrared light 850nm
Response time	≤2ms
Load current	100mA

Power-on delay	<300ms
Sensitivity adjustment	Single-turn potentiometer
Light immunity	<5000Lux
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	ABS
Ingress protection	IP65
Lens material	PC
Operation indicator	Output: Yellow/Power: Green
Connection	2m PVC Cable, 4*0.15mm²/2*0.25mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

Q31 Rectangular Photoelectric Sensor

BFTP-R31-I500-I1500-R500-R1500-S84-1-Y series · Sensing Distance: 5m / 15m · Operating Voltage: 10...30V DC

IP65
Ingress Protection



① ② ③ ④

KEY SPECIFICATIONS

SENSING DISTANCE **5m / 15m**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **31*20*11mm**	RESPONSE TIME **≤2ms**

FEATURES

- Long detection distance
- Wide detection range
- Infrared light with high light immunity capability

MODEL CODES

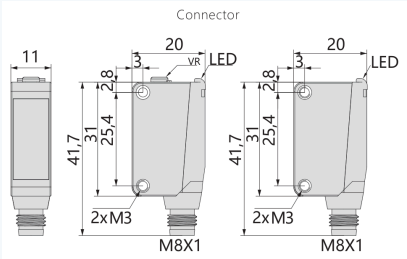
Output Type	①	②	③	④
Emitter	**BFTP-R31-E1R500-S84-1** SKU 10104922	**BFTP-R31-E1R1500-S84-1** SKU 10104925	**BFTP-R31-E1I500-S84-Y** SKU 10104928	**BFTP-R31-E1I1500-S84-Y** SKU 10104931
NPN N.O+N.C	**BFTP-R31-N31R500-S84-1** SKU 10104923	**BFTP-R31-N31R1500-S84-1** SKU 10104926	**BFTP-R31-N31I500-S84-Y** SKU 10104929	**BFTP-R31-N31I1500-S84-Y** SKU 10104932
PNP N.O+N.C	**BFTP-R31-P31R500-S84-1** SKU 10104924	**BFTP-R31-P31R1500-S84-1** SKU 10104927	**BFTP-R31-P31I500-S84-Y** SKU 10104930	**BFTP-R31-P31I1500-S84-Y** SKU 10104933

TECHNICAL DATA

Size	31*20*11mm
Sensing distance	①: 5m ②: 15m ③: 5m ④: 15m
Detection type	Through-beam
Switching frequency	500Hz
Operating voltage	10...30V DC
Light source	①: Red light 650nm ②: Red light 650nm ③: Infrared light 850nm ④: Infrared light 850nm
Response time	≤2ms
Load current	100mA

Power-on delay	<300ms
Sensitivity adjustment	Single-turn potentiometer
Light immunity	<5000Lux
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	ABS
Ingress protection	IP65
Lens material	PC
Operation indicator	Output: Yellow/Power: Green
Connection	M8 Connector
Accessories	M8 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

Q31 Rectangular Photoelectric Sensor

BFTP-R31-L500-L1500-PC2-LD series · Sensing Distance: 5m / 15m · Operating Voltage: 10...30V DC

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **5m / 15m**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **31*20*11mm**	RESPONSE TIME **≤2ms**

MODEL CODES

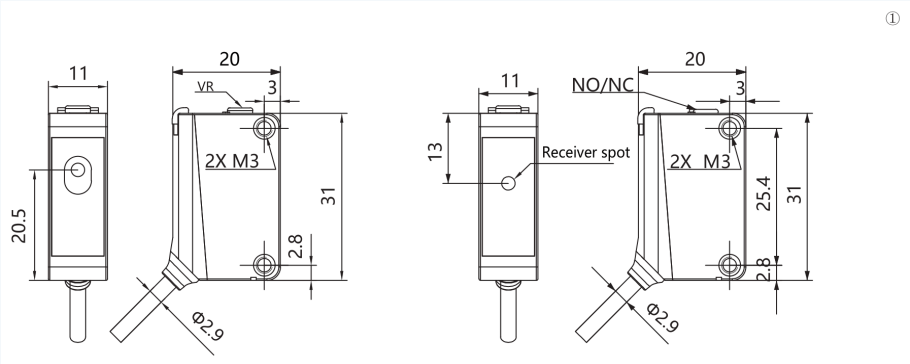
Output Type	5m	15m
Emitter	**BFTP-R31-E1L500-PC2** SKU 10105035	**BFTP-R31-E1L1500-PC2** SKU 10105040
NPN N.O+N.C	**BFTP-R31-N31L500-PC2-LD** SKU 10105362	**BFTP-R31-N31L1500-PC2-LD** SKU 10105364
PNP N.O+N.C	**BFTP-R31-P31L500-PC2-LD** SKU 10105363	**BFTP-R31-P31L1500-PC2-LD** SKU 10105365

TECHNICAL DATA

Size	31*20*11mm
Sensing distance	5m 15m
Detection type	Through-beam
Switching frequency	500Hz
Operating voltage	10...30V DC
Light source	Laser 650nm
Response time	≤2ms
Load current	100mA
Power-on delay	<300ms
Sensitivity adjustment	Single-turn potentiometer

Light immunity	<5000Lux
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	ABS
Ingress protection	IP65
Lens material	PC
Operation indicator	Output: Yellow/Power: Green
Connection	2m PVC Cable, 3*0.18mm²/2*0.25mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

Q31 Rectangular Photoelectric Sensor

BFTP-R31-L500-L1500-S84-LD series · Sensing Distance: 5m / 15m · Operating Voltage: 10...30V DC

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **5m / 15m**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **31*20*11mm**	RESPONSE TIME **≤2ms**

MODEL CODES

Output Type	5m	15m
Emitter	**BFTP-R31-E1L500-S84** SKU 10105045	**BFTP-R31-E1L1500-S84** SKU 10105050
NPN N.O+N.C	**BFTP-R31-N31L500-S84-LD** SKU 10105382	**BFTP-R31-N31L1500-S84-LD** SKU 10105384
PNP N.O+N.C	**BFTP-R31-P31L500-S84-LD** SKU 10105383	**BFTP-R31-P31L1500-S84-LD** SKU 10105385

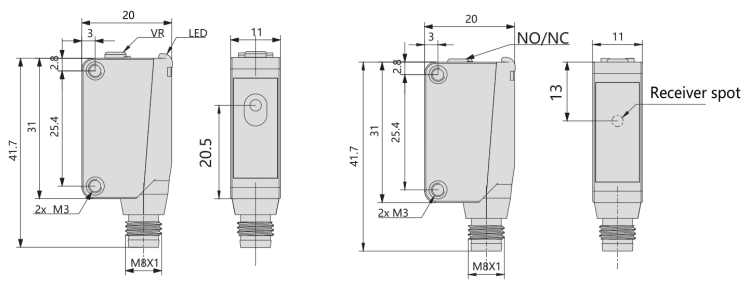
TECHNICAL DATA

Size	31*20*11mm
Sensing distance	5m 15m
Detection type	Through-beam
Switching frequency	500Hz
Operating voltage	10...30V DC
Light source	Laser 650nm
Response time	≤2ms
Load current	100mA
Power-on delay	<300ms
Sensitivity adjustment	Single-turn potentiometer

Light immunity	<5000Lux
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	ABS
Ingress protection	IP65
Lens material	PC
Operation indicator	Output: Yellow/Power: Green
Connection	M8 Connector
Accessories	M8 4 pin cable with connector

DIMENSIONAL DRAWINGS

Connector



All dimensions in mm.

Q31 Rectangular Photoelectric Sensor

BFTP-R31-R500-R1500-PC2-1-LD series · Sensing Distance: 5m / 15m · Operating Voltage: 10...30V DC

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **5m / 15m**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **31*20*11mm**	RESPONSE TIME **≤2ms**

MODEL CODES

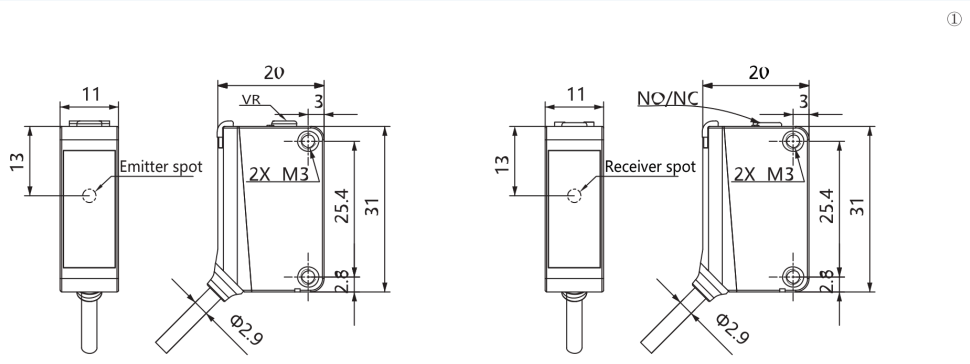
Output Type	5m	15m
Emitter	**BFTP-R31-E1R500-PC2-1** SKU 10104910	**BFTP-R31-E1R1500-PC2-1** SKU 10104913
NPN N.O+N.C	**BFTP-R31-N31R500-PC2-LD** SKU 10105322	**BFTP-R31-N31R1500-PC2-LD** SKU 10105324
PNP N.O+N.C	**BFTP-R31-P31R500-PC2-LD** SKU 10105323	**BFTP-R31-P31R1500-PC2-LD** SKU 10105325

TECHNICAL DATA

Size	31*20*11mm
Sensing distance	5m 15m
Detection type	15m Through-beam
Switching frequency	500Hz
Operating voltage	10...30V DC
Light source	Red light 650nm
Response time	≤2ms
Load current	100mA
Power-on delay	<300ms
Sensitivity adjustment	Single-turn potentiometer

Light immunity	<5000Lux
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	ABS
Ingress protection	IP65
Lens material	PC
Operation indicator	Output: Yellow/Power: Green
Connection	2m PVC Cable, 3*0.18mm²/2*0.25mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

Q31 Rectangular Photoelectric Sensor

BFTP-R31-R500-R1500-S84-1-LD series · Sensing Distance: 5m / 15m · Operating Voltage: 10...30V DC

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **5m / 15m**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **31*20*11mm**	RESPONSE TIME **≤2ms**

MODEL CODES

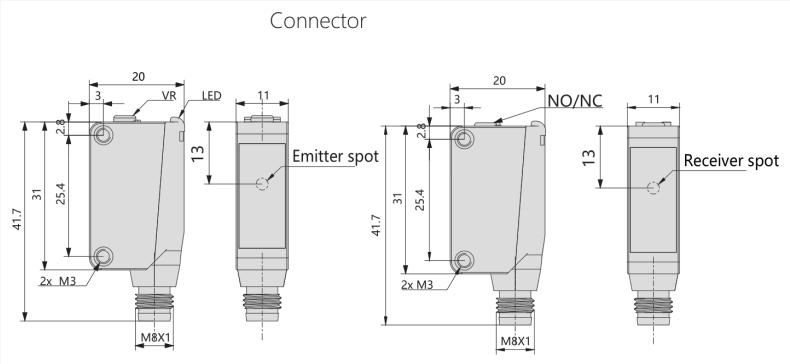
Output Type	5m	15m
Emitter	**BFTP-R31-E1R500-S84-1** SKU 10104922	**BFTP-R31-E1R1500-S84-1** SKU 10104925
NPN N.O+N.C	**BFTP-R31-N31R500-S84-LD** SKU 10105378	**BFTP-R31-N31R1500-S84-LD** SKU 10105380
PNP N.O+N.C	**BFTP-R31-P31R500-S84-LD** SKU 10105379	**BFTP-R31-P31R1500-S84-LD** SKU 10105381

TECHNICAL DATA

Size	31*20*11mm
Sensing distance	5m 15m
Detection type	Through-beam
Switching frequency	500Hz
Operating voltage	10...30V DC
Light source	Red light 650nm
Response time	≤2ms
Load current	100mA
Power-on delay	<300ms
Sensitivity adjustment	Single-turn potentiometer

Light immunity	<5000Lux
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	ABS
Ingress protection	IP65
Lens material	PC
Operation indicator	Output: Yellow/Power: Green
Connection	M8 Connector
Accessories	M8 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

Q31 Rectangular Photoelectric Sensor

BFBP-R31-L25-PC2-S84 series · Sensing Distance: 10...250mm · Operating Voltage: 10...30V DC

IP65
Ingress Protection



① ②

KEY SPECIFICATIONS

SENSING DISTANCE **10...250mm**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **1000Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **31*20*11mm**	RESPONSE TIME **≤1ms**

FEATURES

- No need to distinguish the target object color Quick response Reverse connection protection

MODEL CODES

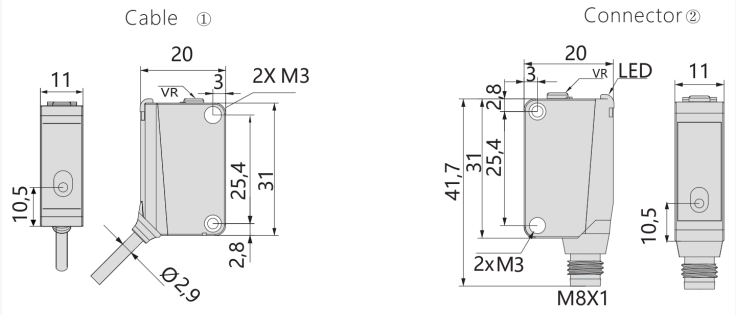
Output Type	①	②
NPN N.O+N.C	**BFBP-R31-N31L25-PC2** SKU 10105283	**BFBP-R31-N31L25-S84** SKU 10105285
PNP N.O+N.C	**BFBP-R31-P31L25-PC2** SKU 10105284	**BFBP-R31-P31L25-S84** SKU 10105286

TECHNICAL DATA

Size	31*20*11mm
Sensing distance	10...250mm
Detection type	Background suppression
Switching frequency	1000Hz
Operating voltage	10...30V DC
Light source	Laser 650nm
Response time	≤1ms
Blind distance	<10mm
Light spot size	Diameter about 1mm circle (at 300mm)
Load current	100mA
Power-on delay	<300ms
Sensitivity adjustment	Multi-turn potentiometer

Light immunity	<5000Lux
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	ABS
Ingress protection	IP65
Lens material	PC
Operation indicator	Output: Yellow/Power: Green
Connection	①: 2m PVC Cable, 4*0.15mm² ②: M8Connector
Accessories	①: None ②: M8 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

Q31 Rectangular Photoelectric Sensor

BFBP-R31-L25-R25-S84-LD series · Sensing Distance: 10...250mm · Operating Voltage: 10...30V DC

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **10...250mm**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **1000Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **31*20*11mm**	RESPONSE TIME **≤1ms**

MODEL CODES

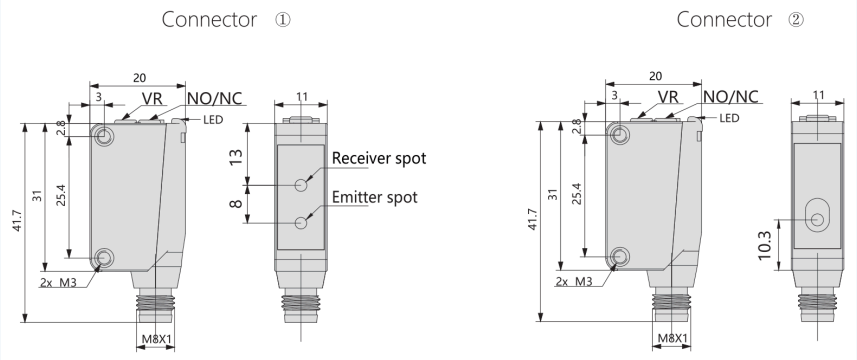
Output Type		
NPN N.O+N.C	**BFBP-R31-N31R25-S84-LD** SKU 10105386	**BFBP-R31-N31L25-S84-LD** SKU 10105388
PNP N.O+N.C	**BFBP-R31-P31R25-S84-LD** SKU 10105387	**BFBP-R31-P31L25-S84-LD** SKU 10105389

TECHNICAL DATA

Size	31*20*11mm
Sensing distance	10...250mm
Detection type	Background suppression
Switching frequency	1000Hz
Operating voltage	10...30V DC
Light source	①: Red light 650nm ②: Laser 650nm
Response time	≤1ms
Load current	100mA
Power-on delay	<300ms
Sensitivity adjustment	Multi-turn potentiometer

Light immunity	<5000Lux
Blind distance	<10mm
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	ABS
Ingress protection	IP65
Lens material	PC
Operation indicator	Output: Yellow/Power: Green
Connection	M8 Connector
Accessories	M8 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

Q31 Rectangular Photoelectric Sensor

BFBP-R31-R25-PC2-S84 series · Sensing Distance: 10...250mm · Operating Voltage: 10...30V DC

IP65
Ingress Protection



① ②

KEY SPECIFICATIONS

SENSING DISTANCE **10...250mm**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **1000Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **31*20*11mm**	RESPONSE TIME **≤1ms**

MODEL CODES

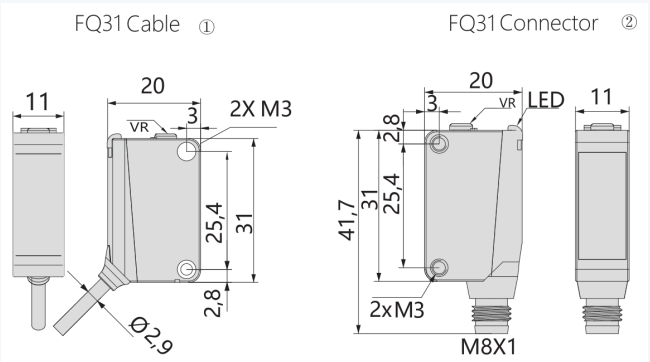
Output Type	①	②
NPN N.O+N.C	**BFBP-R31-N31R25-PC2** SKU 10105275	**BFBP-R31-N31R25-S84** SKU 10105277
PNP N.O+N.C	**BFBP-R31-P31R25-PC2** SKU 10105276	**BFBP-R31-P31R25-S84** SKU 10105278

TECHNICAL DATA

Size	31*20*11mm
Sensing distance	10...250mm
Detection type	Background suppression
Switching frequency	1000Hz
Operating voltage	10...30V DC
Light source	Red light 650nm
Response time	≤1ms
Load current	100mA
Power-on delay	<300ms
Sensitivity adjustment	Multi-turn potentiometer
Light immunity	<5000Lux

Blind distance	<10mm
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	ABS
Ingress protection	IP65
Lens material	PC
Operation indicator	Output: Yellow/Power: Green
Connection	①: 2m PVC Cable, 4*0.15mm² ②: M8Connector
Accessories	①: None ②: M8 4 pin cable with connector

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

Q31 Rectangular Photoelectric Sensor

BFDP-R31-I11-I35-I80-PC2-N series · Sensing Distance: 110mm / 350mm / 800mm · Operating Voltage: 10...30V DC

IP65
Ingress Protection



①②③ ④⑤⑥

KEY SPECIFICATIONS

SENSING DISTANCE **110mm / 350mm / 800mm**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **32.1*18*12.8mm**	RESPONSE TIME **<2ms**

FEATURES

- Quick response time
- Infrared light source
- Strong light immunity capability

MODEL CODES

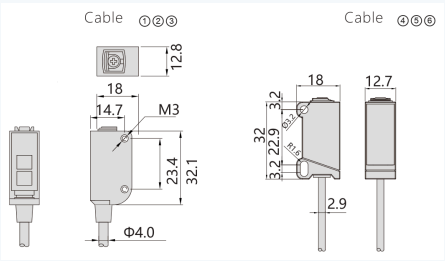
Output Type	①	②	③	④	⑤	⑥
NPN N.O+N.C	BFDP-R31-N31I11-PC2 SKU 10104874	BFDP-R31-N31I35-PC2 SKU 10104876	BFDP-R31-N31I80-PC2 SKU 10104878	BFDP-R31-N31I11-PC2-N SKU 10104880	BFDP-R31-N31I35-PC2-N SKU 10104882	BFDP-R31-N31I80-PC2-N SKU 10104884
PNP N.O+N.C	BFDP-R31-P31I11-PC2 SKU 10104875	BFDP-R31-P31I35-PC2 SKU 10104877	BFDP-R31-P31I80-PC2 SKU 10104879	BFDP-R31-P31I11-PC2-N SKU 10104881	BFDP-R31-P31I35-PC2-N SKU 10104883	BFDP-R31-P31I80-PC2-N SKU 10104885

TECHNICAL DATA

Size	32.1*18*12.8mm
Sensing distance	①: 110mm ②: 350mm ③: 800mm ④: 110mm ⑤: 350mm ⑥: 800mm
Detection type	Diffuse reflection
Switching frequency	500Hz
Operating voltage	10...30V DC
Light source	Infrared light 880nm
Response time	<2ms
Load current	100mA
Power-on delay	<300ms

Sensitivity adjustment	Single-turn potentiometer
Light immunity	<5000Lux
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	ABS
Ingress protection	IP65
Lens material	PMMA
Operation indicator	Output: Red/Power: Yellow
Connection	2m PVC Cable, 4*0.25mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

Q31 Rectangular Photoelectric Sensor

BFDP-R31-R20-PC2-D-N series · Sensing Distance: 200mm · Operating Voltage: 10...30V DC

IP65
Ingress Protection



① ②

KEY SPECIFICATIONS

SENSING DISTANCE **200mm**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...55°C**
RESPONSE TIME **≤2ms**	INGRESS PROTECTION **IP65**

FEATURES

- Super large spot
- Capable of detecting carved objects and transparent objects

MODEL CODES

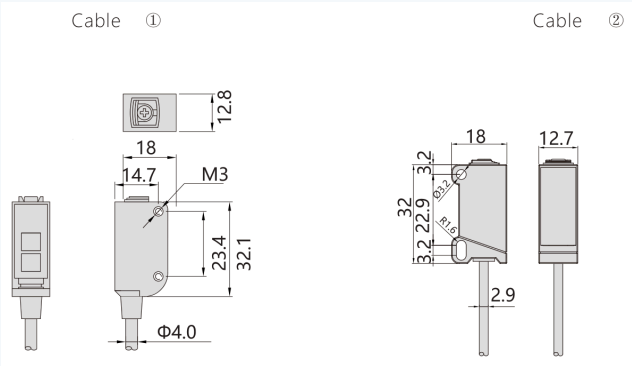
Output Type	32.1*18*12.8mm ①	32*18*12.7mm ②
NPN N.O+N.C	**BFDP-R31-N31R20-PC2-D** SKU 10104894	**BFDP-R31-N31R20-PC2-D-N** SKU 10104896
PNP N.O+N.C	**BFDP-R31-P31R20-PC2-D** SKU 10104895	**BFDP-R31-P31R20-PC2-D-N** SKU 10104897

TECHNICAL DATA

Size	32.1*18*12.8mm 32*18*12.7mm
Sensing distance	200mm
Detection type	Diffuse reflection (Super large spot)
Switching frequency	500Hz
Operating voltage	10...30V DC
Light source	Red Light 650nm
Response time	≤2ms
Load current	100mA
Power-on delay	<300ms
Sensitivity adjustment	Single-turn potentiometer

Light spot diameter	About 200mm square spot (at 200mm)
Light immunity	<5000Lux
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	ABS
Ingress protection	IP65
Lens material	PMMA
Operation indicator	Output: Red/Power: Yellow
Connection	2m PVC Cable, 4*0.25mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

Q31 Rectangular Photoelectric Sensor — TOF

BFDP-R31-LTI100-LTI200-LTI400-LTR100-LTR200-LTR400-PC2 series · Operating Voltage: 10...30V DC · Switching Freq.: 30Hz

IP66
Ingress Protection



①②③ ④⑤⑥

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30V DC**	SWITCHING FREQ. **30Hz**
AMBIENT TEMP. **-20...60°C**	HOUSING **31*20*11mm**
BLIND ZONE **50mm**	INGRESS PROTECTION **IP66**

FEATURES

- TOF (time-of-flight) measuring principle

MODEL CODES

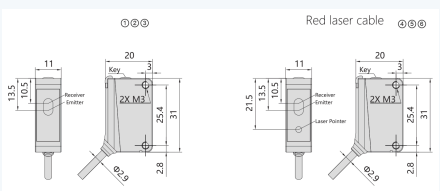
Output Type	①	②	③	④	⑤	⑥
NPN N.O	BFDP-R31-N11LTI100-PC2 SKU 10105142	BFDP-R31-N11LTI200-PC2 SKU 10105146	BFDP-R31-N11LTI400-PC2 SKU 10105150	BFDP-R31-N11LTR100-PC2 SKU 10105154	BFDP-R31-N11LTR200-PC2 SKU 10105158	BFDP-R31-N11LTR400-PC2 SKU 10105162
NPN N.C	BFDP-R31-N21LTI100-PC2 SKU 10105143	BFDP-R31-N21LTI200-PC2 SKU 10105147	BFDP-R31-N21LTI400-PC2 SKU 10105151	BFDP-R31-N21LTR100-PC2 SKU 10105155	BFDP-R31-N21LTR200-PC2 SKU 10105159	BFDP-R31-N21LTR400-PC2 SKU 10105163
PNP N.O	BFDP-R31-P11LTI100-PC2 SKU 10105144	BFDP-R31-P11LTI200-PC2 SKU 10105148	BFDP-R31-P11LTI400-PC2 SKU 10105152	BFDP-R31-P11LTR100-PC2 SKU 10105156	BFDP-R31-P11LTR200-PC2 SKU 10105160	BFDP-R31-P11LTR400-PC2 SKU 10105164
PNP N.C	BFDP-R31-P21LTI100-PC2 SKU 10105145	BFDP-R31-P21LTI200-PC2 SKU 10105149	BFDP-R31-P21LTI400-PC2 SKU 10105153	BFDP-R31-P21LTR100-PC2 SKU 10105157	BFDP-R31-P21LTR200-PC2 SKU 10105161	BFDP-R31-P21LTR400-PC2 SKU 10105165

TECHNICAL DATA

Size	31*20*11mm
Sensing distance	①: 50...1000mm ②: 50...2000mm ③: 50...4000mm ④: 50...1000mm ⑤: 50...2000mm ⑥: 50...4000mm
Blind zone	50mm
Range setting	Button
Measurement accuracy	5mm
Resolution	1mm
Switching frequency	30Hz
Operating voltage	10...30V DC
No-load power consumption	≤0.5VA
Power-on delay	3s
Load current	100mA
Light source	①: Infrared light 940nm ②: Infrared light 940nm ③: Infrared light 940nm ④: Red laser 650nm ⑤: Red laser 650nm ⑥: Red laser 650nm

Light spot size	About 30mm(1000mm), about 60mm(2000mm), about 140mm(4000mm)
Voltage drop	≤2V
Light immunity	<100 kLux
Overload protection	Yes
Short-circuit protection	Yes
Reverse polarity protection	Yes
Ambient temperature	-20...60°C
Storage temperature	-40...70°C
Housing material	ABS
Lens material	PMMA
Ingress protection	IP66
Aiming light	①: Infrared ②: Infrared ③: Infrared ④: Red Laser ⑤: Red Laser ⑥: Red Laser
Operation indicator	Output: Yellow; Power/Instruction: Green
Connection	2m PVC Cable, 3*0.18mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

Q31 Rectangular Photoelectric Sensor — TOF

BFDP-R31-RLTI100-RLTI200-RLTI400-PC2-R series · Operating Voltage: 10...30V DC · Response Time: 35ms

IP66
Ingress Protection



①② ③④⑤⑥

KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30V DC**	RESPONSE TIME **35ms**
AMBIENT TEMP. **-20...60°C**	HOUSING **31*20*11mm**
BLIND ZONE **50mm**	INGRESS PROTECTION **IP66**

FEATURES

- TOF (time-of-flight) measuring principle

MODEL CODES

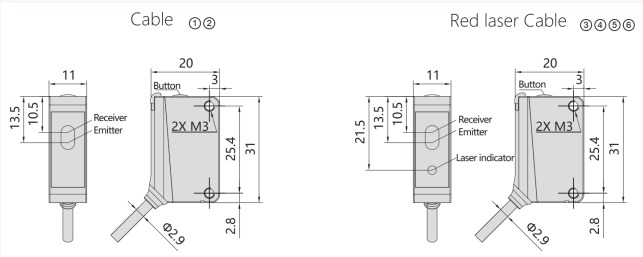
Output Type	①	②	③	④	⑤	⑥
Receiver	**BFDP-R31-RLTI100-PC2** SKU 10105166	**BFDP-R31-RLTI200-PC2** SKU 10105167	**BFDP-R31-RLTI400-PC2** SKU 10105168	**BFDP-R31-RLTI100-PC2-R** SKU 10105169	**BFDP-R31-RLTI200-PC2-R** SKU 10105170	**BFDP-R31-RLTI400-PC2-R** SKU 10105171

TECHNICAL DATA

Size	31*20*11mm
Sensing distance	①: 50...1000mm ②: 50...2000mm ③: 50...4000mm ④: 50...1000mm ⑤: 50...2000mm ⑥: 50...4000mm
Blind zone	50mm
Range setting	Button
Repeatability	Within ±10mm(50-300mm); ≤1%(300mm-4000mm)
Measurement accuracy	Within ±30mm(50-300mm); ≤2%(300mm-4000mm)
Resolution	1mm
Operating voltage	10...30V DC
No-load power consumption	≤0.5VA
Power-on delay	≤3s
Response time	35ms
Light source	Infrared light 940nm
Divergence angle	±2°
Aiming indicator	Infrared

Operation indicator	Yellow LED: target is within the range; Green LED:power source
Light immunity	10 kLux
Overload protection	Yes
Short-circuit protection	Yes
Reverse polarity protection	Yes
Output mode	RS485
Ambient temperature	-20...60°C
Storage temperature	-40...70°C
Ambient humidity	35%-85%(No condensation)
Withstand voltage	1000V/AC 50/60Hz 60s
EMC	IEC60947-5-2
Housing material	ABS
Lens material	PMMA
Ingress protection	IP66
Connection	2m PVC Cable, 4*0.15mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

Q45 Rectangular Photoelectric Sensor — Contrast

BFCM-R45-3150-PC2 series · Sensing Distance: 50-500mm · Housing: 43.5*28*24.5mm

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **50–500mm**	HOUSING **43.5*28*24.5mm**
INGRESS PROTECTION **IP65**	LIGHT SOURCE **White LED**

FEATURES

- Contrast (colour/mark) detection
- LED white light source, wide range of light wave-length, stably detect the difference of colors or appearance
- Long distance detection, up to 500mm
- Background suppression

MODEL CODES

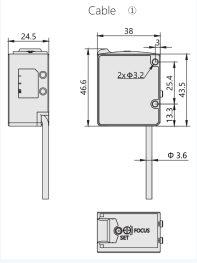
Output Type	Model Code
NPN/PNP	**BFCM-R45-PN3150-PC2** SKU 10105238

TECHNICAL DATA

Size	43.5*28*24.5mm
Sensing distance	50-500mm
Min. light spot diameter	About Φ7mm(at 100mm distance); About Φ10mm(at 250mm distance); About Φ20mm(at 500mm distance)
Response time	200μs/1ms/10ms/100ms/500ms
Light source	White LED
Power supply	12~30V including ripple voltage 10%, Class 2 or LPS
Current consumption	<50mA at 24V,<100mA at 12V
Timer	OFF/ON delay/OFF delay/one shot
Control output	NPN open collector/PNP open collector, switchable; <30V,<100mA, residue voltage <2V; N.O./N.C. switchable
External input	Tuning/stop-transmitting, switchable
Protection circuit	Power polarity reversal protection; Power surge protection; Output over-current protection; Output surge protection

Light immunity	Incandescent light <10000 lux, sunlight<20000lux
Ambient temperature	-25...50°C(no freezing)
Ambient humidity	35...85%RH(no condensation)
Shock resistance	300m/s² 6 times at each of X, Y, Z axis
Vibration resistance	10-55Hz dual amplitude 1.5mm,2hours duration at each of X, Y, Z axis
Ingress protection	IP65
Material	Housing: zinc die casting; LED indicator cover: PC; button: stainless steel
Mutual interference reduction	Set-up different frequency, max 2 pcs sensors

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

Q45 Rectangular Photoelectric Sensor — TOF

BFDP-R45-LTI500-LTR500-PC2 series · Sensing Distance: 0.05m~5m · Operating Voltage: 10~30V DC

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **0.05m~5m**	OPERATING VOLTAGE **10~30V DC**
SWITCHING FREQ. **100Hz**	AMBIENT TEMP. **-10°C~50°C**
HOUSING **45*40*20mm**	BLIND ZONE **50mm**

FEATURES

- TOF (time-of-flight) measuring principle

MODEL CODES

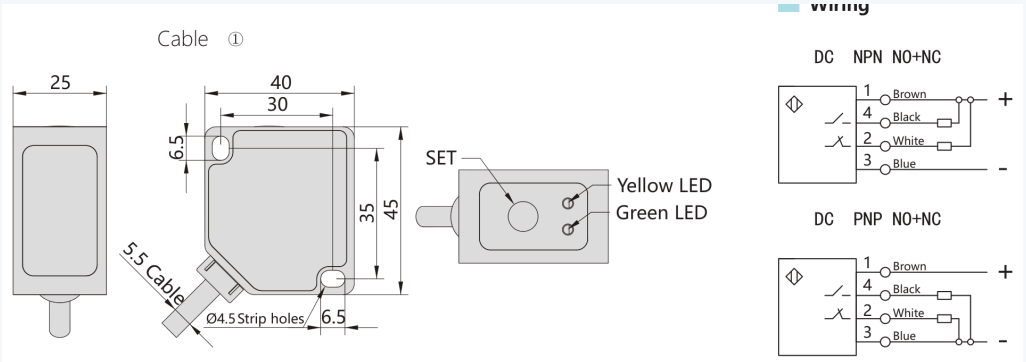
Output Type		
NPN N.O+N.C	**BFDP-R45-N31LTR500-PC2** SKU 10105172	**BFDP-R45-N31LTI500-PC2** SKU 10105174
PNP N.O+N.C	**BFDP-R45-P31LTR500-PC2** SKU 10105173	**BFDP-R45-P31LTI500-PC2** SKU 10105175

TECHNICAL DATA

Size	45*40*20mm
Sensing distance	0.05m~5m
Blind zone	50mm
Detection accuracy	3%
Resolution	1cm
Operating voltage	10~30V DC
No-load current	≤50mA
Load current	≤200mA
Voltage drop	≤2V
Switching frequency	100Hz
Light source	①: Red light 650nm ②: Infrared light 808nm

Light spot size	8*10mm(5m)
Light immunity	≤100 kLux
Overload protection	Yes
Short-circuit protection	Yes
Reverse polarity protection	Yes
Ambient temperature	-10°C~50°C
Storage temperature	-20°C~70°C
Ingress protection	IP65
Connection	2m PVC Cable, 4*0.25mm²

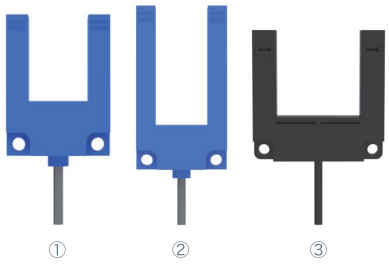
DIMENSIONAL DRAWINGS



All dimensions in mm.

Q50 / Q78 Rectangular Photoelectric Sensor

BFGP-R50-N31I30-PC2 series · Sensing Distance: 30mm / 50mm · Operating Voltage: 10...30V DC



KEY SPECIFICATIONS

SENSING DISTANCE **30mm / 50mm**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...55°C**
RESPONSE TIME **<2ms**	

MODEL CODES

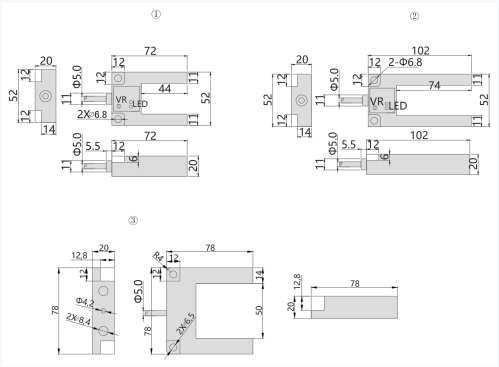
Output Type	72X25X20mm ①	102X25X20mm ②	78X78X20 ③
NPN N.O+N.C	**BFGP-R50-N31I30-PC2** SKU 10105403	**BFGP-R50-N31I30-PC2-L** SKU 10105404	**BFGP-R78-N31I50-PC2** SKU 10105405
PNP N.O+N.C	**BFGP-R50-P31I30-PC2** SKU 10105220	**BFGP-R50-P31I30-PC2-L** SKU 10105221	**BFGP-R78-P31I50-PC2** SKU 10105222

TECHNICAL DATA

Size	72X25X20mm 102X25X20mm 78X78X20
Sensing distance	**72X25X20mm:** 30mm **102X25X20mm:** 30mm **78X78X20:** 50mm
Operating voltage	10...30V DC
Switching frequency	500Hz
Light source	Infrared light 880nm
Response time	<2ms
Load current	100mA
Power-on delay	<300ms

Sensitivity adjustment	Single-turn potentiometer
Light immunity	<5000Lux
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	ABS
Lens material	PMMA
Operation indicator	Yellow: output/Green: power
Connection	2m PVC Cable, 4*0.25mm²

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

Q50 Rectangular Photoelectric Sensor

BFDP-R50-N31I100-PC2 series · Sensing Distance: 1m / 2m / 5m · Operating Voltage: 10...30V DC

IP65
Ingress Protection



①②



③④

KEY SPECIFICATIONS

SENSING DISTANCE **1m / 2m / 5m**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **200Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **50*50*18mm**	RESPONSE TIME **≤5ms**

FEATURES

- Long detection distance
- Quick response time

MODEL CODES

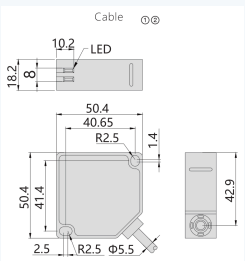
Output Type	①	②	③	④
NPN N.O+N.C	BFDP-R50-N31I100-PC2 SKU 10104934	BFDP-R50-N31I200-PC2 SKU 10104936	BFRP-R50-N31I500-PC2 SKU 10104938	BFRP-R50-N31R500-PC2-F SKU 10104940
PNP N.O+N.C	BFDP-R50-P31I100-PC2 SKU 10104935	BFDP-R50-P31I200-PC2 SKU 10104937	BFRP-R50-P31I500-PC2 SKU 10104939	BFRP-R50-P31R500-PC2-F SKU 10104941

TECHNICAL DATA

Size	50*50*18mm
Sensing distance	①: 1m ②: 2m ③: 5m ④: 5m
Detection type	①: Diffuse reflection ②: Diffuse reflection ③: Retro-reflection ④: Retro-reflection
Switching frequency	200Hz
Operating voltage	10...30V DC
Light source	①: Infrared light 880nm ②: Infrared light 880nm ③: Infrared light 880nm ④: Red light 650nm
Response time	≤5ms

Load current	≤200mA
Power-on delay	<100ms
Sensitivity adjustment	Single-turn potentiometer
Light immunity	<10000Lux
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	PBT
Ingress protection	IP65
Lens material	PMMA
Operation indicator	Output: Yellow/Power: Red
Connection	2m PVC Cable, 4*0.25mm²
Accessories	①: None ②: None ③: FPFR-D83 ④: FPFR-D83

DIMENSIONAL DRAWINGS



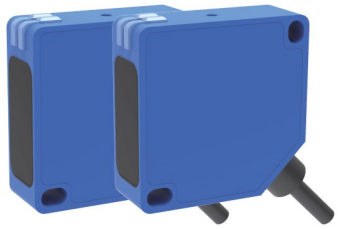
All dimensions in mm.

PHOTOELECTRIC

Q50 Rectangular Photoelectric Sensor

BFTP-R50-EU55I2000-EU55I4000-RU45I2000-RU45I4000-PC2 series · Sensing Distance: 20m / 40m · Operating Voltage: 24...240V AC/DC

IP66
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **20m / 40m**	OPERATING VOLTAGE **24...240V AC/DC**
SWITCHING FREQ. **10Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **50*50*18mm**	RESPONSE TIME **≤100ms**

FEATURES

- Long detection distance
- Wide detection range
- Infrared light with high light immunity capability

MODEL CODES

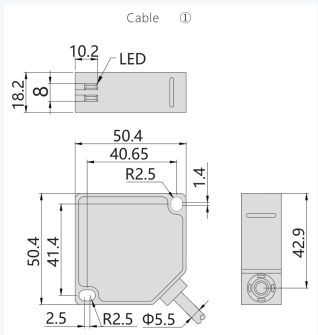
Output Type	20m	40m
Emitter	**BFTP-R50-EU55I2000-PC2** SKU 10105128	**BFTP-R50-EU55I4000-PC2** SKU 10105130
Receiver	**BFTP-R50-RU45I2000-PC2** SKU 10105129	**BFTP-R50-RU45I4000-PC2** SKU 10105131

TECHNICAL DATA

Size	50*50*18mm
Sensing distance	20m 40m
Detection type	Through-beam
Switching frequency	10Hz
Operating voltage	24...240V AC/DC
Light source	Infrared light 880nm
Response time	≤100ms
Load current	3A/30VDC; 1A/220VAC
Power-on delay	<300ms
Sensitivity adjustment	None

Light immunity	<10000Lux
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	PBT
Ingress protection	IP66
Lens material	PMMA
Operation indicator	Output: Yellow/Power: Red
Connection	2m PVC Cable, 2*0.5mm²/5*0.25mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

Q50 Rectangular Photoelectric Sensor

BFTP-R50-I2000-I4000-PC2 series · Sensing Distance: 20m / 40m · Operating Voltage: 10...30V DC

IP66
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **20m / 40m**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **200Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **50*50*18mm**	RESPONSE TIME **≤5ms**

FEATURES

- Long detection distance
- Wide detection objects range
- Infrared light with high light immunity capability

MODEL CODES

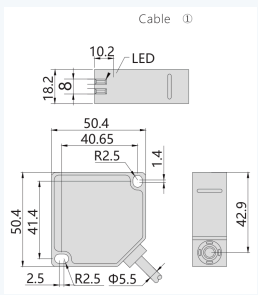
Output Type	20m	40m
Emitter	**BFTP-R50-E1I2000-PC2** SKU 10104942	**BFTP-R50-E1I4000-PC2** SKU 10104945
NPN N.O+N.C	**BFTP-R50-N31I2000-PC2** SKU 10104943	**BFTP-R50-N31I4000-PC2** SKU 10104946
PNP N.O+N.C	**BFTP-R50-P31I2000-PC2** SKU 10104944	**BFTP-R50-P31I4000-PC2** SKU 10104947

TECHNICAL DATA

Size	50*50*18mm
Sensing distance	20m 40m
Detection type	Through-beam
Switching frequency	200Hz
Operating voltage	10...30V DC
Light source	Infrared light 880nm
Response time	≤5ms
Load current	≤200mA
Power-on delay	<100ms
Sensitivity adjustment	None

Light immunity	<10000Lux
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	PBT
Ingress protection	IP66
Lens material	PMMA
Operation indicator	Output: Yellow/Power: Red
Connection	2m PVC Cable, 2*0.5mm², 4*0.25mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

Q60 Rectangular Photoelectric Sensor — TOF

BFDP-R60-31LTR500-31LTR3000-RLTR3000-PC2 series · Sensing Distance: 0.05m~5m / 0.05m~30m · Operating Voltage: 10~30V DC

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **0.05m~5m / 0.05m~30m**	OPERATING VOLTAGE **10~30V DC**
SWITCHING FREQ. **0.5Hz / 50Hz**	AMBIENT TEMP. **-10°C~50°C**
HOUSING **60*55*28mm**	BLIND ZONE **50mm**

FEATURES

- TOF (time-of-flight) measuring principle

MODEL CODES

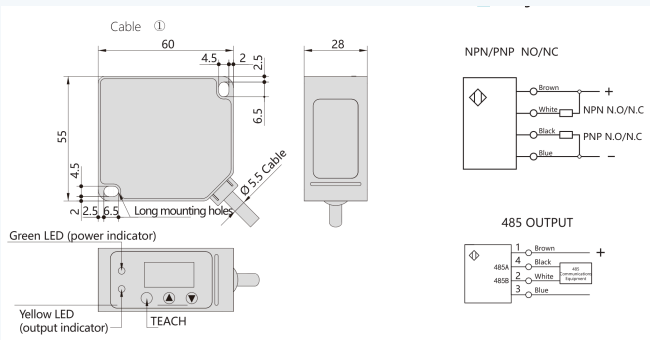
Output Type			
NPN/PNP N.O/N.C	**BFDP-R60-PN31LTR500-PC2** SKU 10105176	**BFDP-R60-PN31LTR3000-PC2** SKU 10105177	–
Receiver	–	–	**BFDP-R60-RLTR3000-PC2** SKU 10105178

TECHNICAL DATA

Size	60*55*28mm
Sensing distance	①: 0.05m~5m ②: 0.05m~30m ③: 0.05m~30m
Blind zone	50mm
Detection accuracy	±2mm
Resolution	1mm
Operating voltage	10~30V DC
No-load current	≤50mA
Load current	①: ≤200mA ②: ≤200mA ③: —
Voltage drop	①: ≤2V ②: ≤2V ③: —

Switching frequency	①: 0.5Hz ②: 0.5Hz ③: 50Hz
Light source	Red light 650nm
Light spot size	5*10mm(5m)
Light immunity	10 kLux
Operating temperature	-10°C~50°C
Storage temperature	-20°C~70°C
Ingress protection	IP65
Connection	2m PVC Cable, 4*0.25mm²

DIMENSIONAL DRAWINGS



All dimensions in mm.

PHOTOELECTRIC

Q72 Rectangular Photoelectric Sensor

BFGP-R72-I26-PC2-3 series · Sensing Distance: 26mm · Operating Voltage: 24...48V DC ±20%

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **26mm**	OPERATING VOLTAGE **24...48V DC ±20%**
SWITCHING FREQ. **1000Hz**	AMBIENT TEMP. **-25...60°C**
HOUSING **15X72X72mm**	RESPONSE TIME **≤1ms**

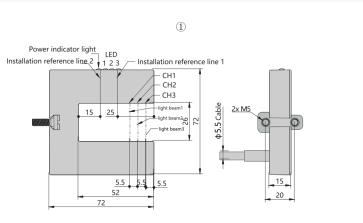
MODEL CODES

Output Type	Model Code
NPN N.O+N.C	**BFGP-R72-N31I26-PC2-3** SKU 10105407
PNP N.O+N.C	**BFGP-R72-P31I26-PC2-3** SKU 10105287

TECHNICAL DATA

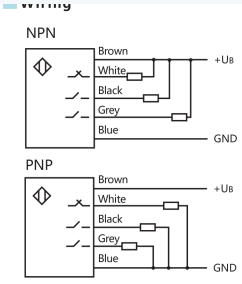
Size	15X72X72mm	**Output modes**	CH1:NC; CH2:NO; CH3:NO
Sensing distance	26mm	**Light immunity**	≤100 kLux
Operating voltage	24...48V DC ±20%	**Ambient temperature**	-25...60°C
Voltage drop	≤1.5VDC	**Ambient humidity**	35...85%
Switching frequency	1000Hz	**Ingress protection**	IP65
Light source	Infrared 940nm	**Housing material**	PC
Response time	≤1ms	**Lens material**	PC
Load current	200mA	**Operation indicator**	Output: Yellow/Power: Green
Power-on delay	≤20ms	**Connection**	2m PVC Cable, 5*0.2mm²

DIMENSIONAL DRAWINGS



Feature:

- High resistance to dust,smoke and steam
- High light immunity
- Multi-channels output,independent control



All dimensions in mm.

PHOTOELECTRIC

Q74 Rectangular Photoelectric Sensor

BFGP-R74-I30-PC3 series · Sensing Distance: 30mm · Operating Voltage: 24V DC ±20%

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **30mm**	OPERATING VOLTAGE **24V DC ±20%**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...60°C**
HOUSING **74X60X15mm**	RESPONSE TIME **≤2ms**

MODEL CODES

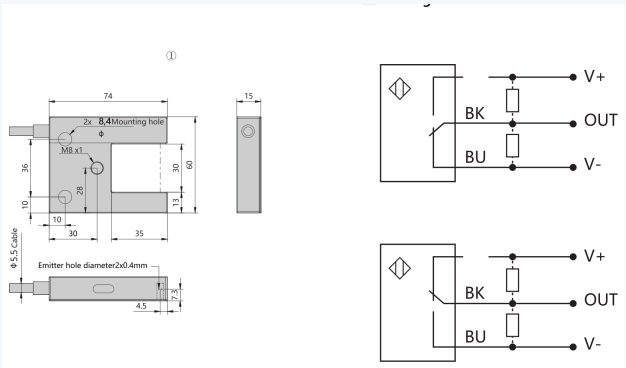
Output Type	Model Code
NPN N.O PNP N.C	**BFGP-R74-N51I30-PC3** SKU 10105408
NPN N.C PNP N.O	**BFGP-R74-P51I30-PC3** SKU 10105409

TECHNICAL DATA

Size	74X60X15mm
Sensing distance	30mm
Operating voltage	24V DC ±20%
Voltage drop	≤1.5VDC
Switching frequency	500Hz
Light source	Infrared light 940nm
Response time	≤2ms
Load current	100mA
No-load current	≤25mA
Switch protection	Short-circuit protection, Polarity reversal

Light immunity	<100KLux
Ambient temperature	-25...60°C
Ambient humidity	35...85%
Housing material	PC
Lens material	Transparent PC
Operation indicator	Output: Yellow/Power: Green
Ingress protection	IP65
Connection	3m PVC Cable, 3*0.2mm²

DIMENSIONAL DRAWINGS



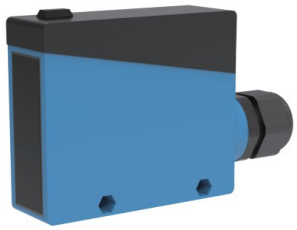
All dimensions in mm.

PHOTOELECTRIC

Q78 Rectangular Photoelectric Sensor

BFRP-R78-I600-T-F-D series · Sensing Distance: 0.6-...6m · Operating Voltage: 10...30V DC

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **0.6-...6m**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **200Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **78*63*25mm**	RESPONSE TIME **≤5ms**

FEATURES

- Long detection distance
- Wide detection range

MODEL CODES

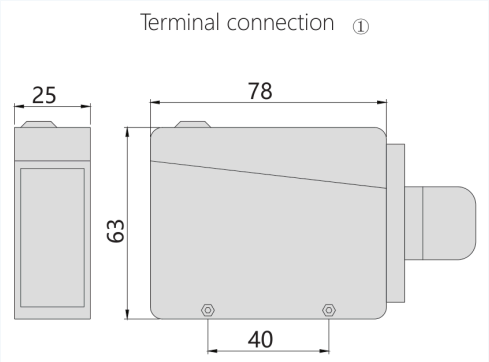
Output Type	None	0.1s-7s±2s
NPN N.O+N.C	**BFRP-R78-N31I600-T-F** SKU 10105073	**BFRP-R78-N31I600-T-F-D** SKU 10105075
PNP N.O+N.C	**BFRP-R78-P31I600-T-F** SKU 10105074	**BFRP-R78-P31I600-T-F-D** SKU 10105076

TECHNICAL DATA

Size	78*63*25mm
Sensing distance	0.6-...6m
Detection type	Retro-reflective
Switching frequency	200Hz
Operating voltage	10...30V DC
Light source	Infrared light 880nm
Response time	≤5ms
Load current	200mA
Power-on delay	<100ms
Sensitivity adjustment	Single-turn potentiometer

Time control	None 0.1s-7s±2s
Light immunity	<10000Lux
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	PBT
Ingress protection	IP65
Lens material	PMMA
Operation indicator	Output: Yellow/Power: Green
Connection	Terminal connection 2.5mm²
Accessories	FPFR-D83

DIMENSIONAL DRAWINGS

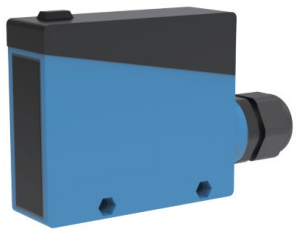


All dimensions in mm.

Q78 Rectangular Photoelectric Sensor

BFDP-R78-I200-T series · Sensing Distance: 2m · Operating Voltage: 10...30V DC

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **2m**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **200Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **78*63*25mm**	RESPONSE TIME **≤5ms**

FEATURES

- Long detection distance
- Wide detection range

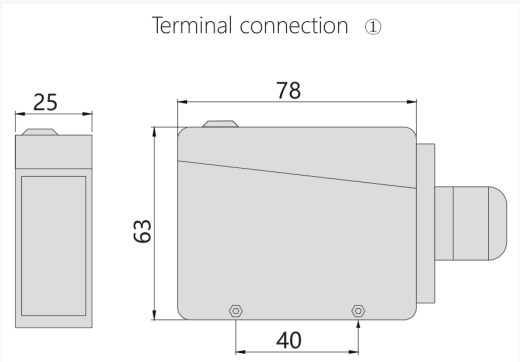
MODEL CODES

Output Type	Model Code
NPN N.O+N.C	**BFDP-R78-N31I200-T** SKU 10105071
PNP N.O+N.C	**BFDP-R78-P31I200-T** SKU 10105072

TECHNICAL DATA

Size	78*63*25mm	**Time control**	None
Sensing distance	2m	**Light immunity**	<10000Lux
Detection type	Diffuse reflection	**Ambient temperature**	-25...55°C
Switching frequency	200Hz	**Ambient humidity**	35...85%
Operating voltage	10...30V DC	**Housing material**	PBT
Light source	Infrared light 880nm	**Ingress protection**	IP65
Response time	≤5ms	**Lens material**	PMMA
Load current	200mA	**Operation indicator**	Output: Yellow/Power: Green
Power-on delay	<100ms	**Connection**	Terminal connection 2.5mm²
Sensitivity adjustment	Single-turn potentiometer	**Accessories**	None

DIMENSIONAL DRAWINGS

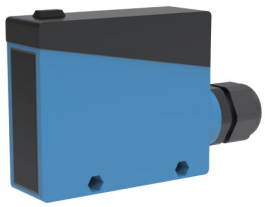


All dimensions in mm.

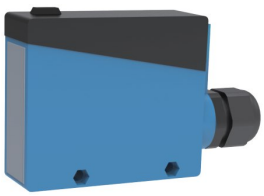
Q78 Rectangular Photoelectric Sensor

BFDP-R78-U45I200-T series · Sensing Distance: 2m / 10m · Operating Voltage: 24...240V AC/DC

IP65
Ingress Protection



①②



③④

KEY SPECIFICATIONS

SENSING DISTANCE **2m / 10m**	OPERATING VOLTAGE **24...240V AC/DC**
SWITCHING FREQ. **10Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **78*63*25mm**	RESPONSE TIME **≤100ms**

FEATURES

- Long detection distance Quick response time

MODEL CODES

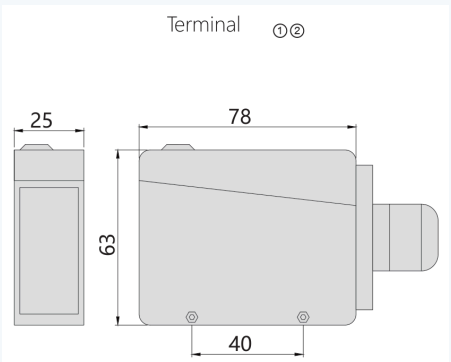
Output Type	①	②	③	④
N.O+N.C	**BFDP-R78-U45I200-T** SKU 10105132	**BFDP-R78-U45I200-T-D** SKU 10105133	**BFRP-R78-U45I1000-T-F** SKU 10105134	**BFRP-R78-U45I1000-T-F-D** SKU 10105135

TECHNICAL DATA

Size	78*63*25mm
Sensing distance	①: 2m ②: 2m ③: 10m ④: 10m
Detection type	①: Diffuse reflection ②: Diffuse reflection ③: Retor-reflective reflection ④: Retor-reflective reflection
Switching frequency	10Hz
Operating voltage	24...240V AC/DC
Light source	Infrared light 880nm
Response time	≤100ms
Load current	5A/30VDC; 1A/220VAC
Time control	0.1s...7s±2s

Power-on delay	<300ms
Sensitivity adjustment	Single-turn potentiometer
Light immunity	<10000Lux
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Housing material	PBT
Ingress protection	IP65
Lens material	PMMA
Operation indicator	Output: Yellow/Power: Green
Connection	Terminal connection to2.5mm²
Accessories	①: None ②: None ③: FPFR-D83 ④: FPFR-D83

DIMENSIONAL DRAWINGS

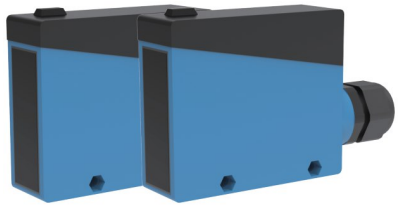


All dimensions in mm.

Q78 Rectangular Photoelectric Sensor

BFTP-R78-EU55I5000-RU45I5000-T series · Sensing Distance: 50m · Operating Voltage: 24...240V DC/AC

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **50m**	OPERATING VOLTAGE **24...240V DC/AC**
SWITCHING FREQ. **10Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **78*63*25mm**	RESPONSE TIME **≤100ms**

FEATURES

- Long detection distance
- Wide detection range
- Infrared light with high light immunity capability

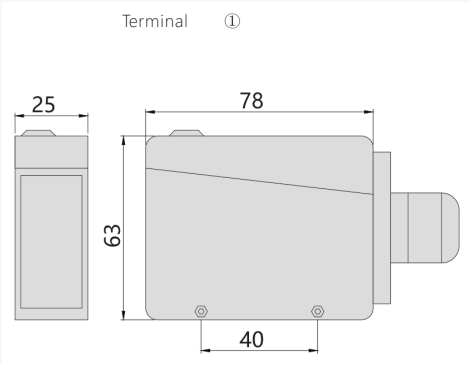
MODEL CODES

Output Type	Model Code
Emitter	**BFTP-R78-EU55I5000-T** SKU 10105136
Receiver	**BFTP-R78-RU45I5000-T** SKU 10105137

TECHNICAL DATA

Size	78*63*25mm	**Sensitivity adjustment**	Single-turn potentiometer
Sensing distance	50m	**Light immunity**	<10000Lux
Detection type	Through-beam	**Ambient temperature**	-25...55°C
Switching frequency	10Hz	**Ambient humidity**	35...85%
Operating voltage	24...240V DC/AC	**Housing material**	PBT
Light source	Infrared light 880nm	**Ingress protection**	IP65
Response time	≤100ms	**Lens material**	PMMA
Load current	5A/30VDC; 1A/220VAC	**Operation indicator**	Output: Yellow/Power: Green
Time control	None	**Connection**	Terminal connection to 2.5mm²
Power-on delay	<300ms	**Accessories**	None

DIMENSIONAL DRAWINGS



All dimensions in mm.

Q80 Rectangular Photoelectric Sensor — Contrast

BFCP-R80-3109-S124 series · Sensing Distance: 9mm · Operating Voltage: 10...30V DC

IP67
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **9mm**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **15kHz**	AMBIENT TEMP. **−10 ...55 °C**
HOUSING **80*53*31mm**	RESPONSE TIME **33 µs**

FEATURES

- Contrast (colour/mark) detection
- Color sensor
- Strong plastic case
- High resolution

MODEL CODES

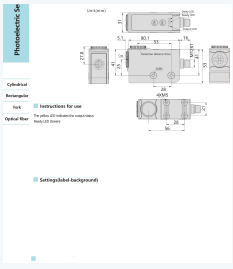
Output Type	Model Code
NPN/PNP N.O/N.C	**BFCP-R80-PN3109-S124** SKU 10104948

TECHNICAL DATA

Size	80*53*31mm
Sensing distance	9mm
Operating voltage	10...30V DC
Ripple	2V/pp Max
No-load current	Max50 mA@ 24Vcc
Output	1 PNP output/1 NPN
Output current	100 mA Max
Output saturation voltage	≤2V
Response time	33 μs
Switching frequency	15kHz
Delay	0 / 20 ms optional (Default configuration no delay)
Light-on / dark-on selection	Dark/Light selection automatic
LED indicator	Output LED (Yellow)/Ready LED (Green)/Delay LED (Orange)
Button	ON and OFF
Operating temperature	-10 ...55 °C
Storage temperature	-20 ...70 °C
Dielectric strength	500 VAC 1min, Between the electronics and the housing

Insulation resistance	>20 MΩ 500 Vdc, Between the electronic component and the housing
Rated sensing distance	9mm
Sensing distance tolerance	±3mm
Light spot size	1.5x5 mm @ 9 mm
Light source	Blue (465 nm)/Green (520 nm)/Red (630 nm) is selected automatically
Light immunity	According to EN 60947-5-2
Vibration resistance	0.5 mm amplitude, 10 ...55 Hz frequency, Every axis (EN60068-2-6)
Shock resistance	11 ms (30 G) Six shocks per axis (EN60068-2-27)
Housing material	ABS
Lens material	PMMA
Ingress protection	IP67
Connection	M12 4 Core

DIMENSIONAL DRAWINGS



All dimensions in mm.

Other Models — Order List

Photoelectric Sensors · models without a datasheet page

M18 CYLINDRICAL



M18 Cylindrical Photoelectric Sensor

Sn 0.1...3m | Retro-reflective | IP66

DETECTION TYPE
Retro-reflective

SENSING DISTANCE
0.1...3m

LIGHT SOURCE
Infrared light 880nm

HOUSING
Brass nickel-plated

LENS
PMMA

CONNECTION
M12 connector 4pin

OPERATING VOLTAGE
24-240VAC

SWITCHING FREQ.
25Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP66

ACCESSORIES
FR-D51

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFRM-M18-A14I300-S124	10104866	Light-on/Dark-on
BFRM-M18-A24I300-S124	10104867	Light-on/Dark-on



M18 Cylindrical Photoelectric Sensor

Sn 10...100mm | Background suppression | IP66

DETECTION TYPE
Background suppression

SENSING DISTANCE
10...100mm

LIGHT SOURCE
Red light 624nm

HOUSING
Brass nickel-plated

LENS
PMMA

CONNECTION
M12 connector 4pin

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
1000Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP66

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFBM-M18-N31I10-S124	10104830	NPN Light-on/Dark-on
BFBM-M18-P31I10-S124	10104831	PNP Light-on/Dark-on



M18 Cylindrical Photoelectric Sensor

Sn 15m | Through-beam | IP66

DETECTION TYPE
Through-beam

SENSING DISTANCE
15m

LIGHT SOURCE
Infrared light 880nm

HOUSING
Brass nickel-plated

LENS
PMMA

CONNECTION
M12 connector 4pin

OPERATING VOLTAGE
24-240VAC

SWITCHING FREQ.
50Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP66

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFTM-M18-E4I1500-S124	10104857	Emitter
BFTM-M18-A14I1500-S124	10104858	Light-on/Dark-on
BFTM-M18-A24I1500-S124	10104859	Light-on/Dark-on



M18 Cylindrical Photoelectric Sensor

Sn 100mm | Diffuse | IP66

DETECTION TYPE
Diffuse

SENSING DISTANCE
100mm

LIGHT SOURCE
Infrared light 880nm

HOUSING
Brass nickel-plated

LENS
PMMA

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP66

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFDM-M18-N31I10-PC2-D	10104774	NPN Light-on/Dark-on
BFDM-M18-P31I10-PC2-D	10104775	PNP Light-on/Dark-on

Other Models — Order List

Photoelectric Sensors · models without a datasheet page



M18 Cylindrical Photoelectric Sensor

Sn 100mm | Diffuse | IP66

DETECTION TYPE
Diffuse

SENSING DISTANCE
100mm

LIGHT SOURCE
Infrared light 880nm

HOUSING
PBT

LENS
PMMA

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP66

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFDP-M18-N31I10-PC2-D	10104772	NPN Light-on/Dark-on
BFDP-M18-P31I10-PC2-D	10104773	PNP Light-on/Dark-on



M18 Cylindrical Photoelectric Sensor

Sn 100mm | Diffuse | IP66

DETECTION TYPE
Diffuse

SENSING DISTANCE
100mm

LIGHT SOURCE
Red light 650nm

HOUSING
ABS

LENS
PMMA

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP66

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFDP-M18-N31R10-PC2-N	10104776	NPN Light-on/Dark-on
BFDP-M18-P31R10-PC2-N	10104777	PNP Light-on/Dark-on



M18 Cylindrical Photoelectric Sensor

Sn 150mm | Diffuse | IP66

DETECTION TYPE
Diffuse

SENSING DISTANCE
150mm

LIGHT SOURCE
Infrared light 880nm

HOUSING
PBT

LENS
PMMA

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP66

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFDP-E18-N31I15-PC2	10104778	NPN Light-on/Dark-on
BFDP-E18-P31I15-PC2	10104779	PNP Light-on/Dark-on



M18 Cylindrical Photoelectric Sensor

Sn 150mm | Diffuse | IP66

DETECTION TYPE
Diffuse

SENSING DISTANCE
150mm

LIGHT SOURCE
Infrared light 880nm

HOUSING
PBT

LENS
PMMA

CONNECTION
M12 connector 4pin

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP66

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFDP-E18-N31I15-S124	10104782	NPN Light-on/Dark-on
BFDP-E18-P31I15-S124	10104783	PNP Light-on/Dark-on

Other Models — Order List

Photoelectric Sensors · models without a datasheet page



M18 Cylindrical Photoelectric Sensor

Sn 500mm | Diffuse | IP66

DETECTION TYPE
Diffuse

SENSING DISTANCE
500mm

LIGHT SOURCE
Infrared light 880nm

HOUSING
PBT

LENS
PMMA

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP66

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFDP-E18-N31I50-PC2	10104780	NPN Light-on/Dark-on
BFDP-E18-P31I50-PC2	10104781	PNP Light-on/Dark-on



M18 Cylindrical Photoelectric Sensor

Sn 500mm | Diffuse | IP66

DETECTION TYPE
Diffuse

SENSING DISTANCE
500mm

LIGHT SOURCE
Infrared light 880nm

HOUSING
PBT

LENS
PMMA

CONNECTION
M12 connector 4pin

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP66

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFDP-E18-N31I50-S124	10104784	NPN Light-on/Dark-on
BFDP-E18-P31I50-S124	10104785	PNP Light-on/Dark-on

Q21 RECTANGULAR



Q21 Rectangular Photoelectric Sensor

Sn 1m | Through-beam | IP67

DETECTION TYPE
Through-beam

SENSING DISTANCE
1m

LIGHT SOURCE
Red light 650nm

HOUSING
Stainless steel

LENS
PC

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP67

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFTM-R21-E1R100-PC2	10105410	Emitter

Q30 RECTANGULAR



Q30 Rectangular Photoelectric Sensor

Sn 1m | Through-beam | IP67

DETECTION TYPE
Through-beam

SENSING DISTANCE
1m

LIGHT SOURCE
Red light 650nm

HOUSING
Stainless steel

LENS
PC

CONNECTION
Cable 2m

OPERATING VOLTAGE
12-24VDC

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP67

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFTM-R30-E1R100-PC2	10105268	Emitter
BFTM-R30-N31R100-PC2	10105269	NPN NO+NC
BFTM-R30-P31R100-PC2	10105270	PNP NO+NC

Other Models — Order List

Photoelectric Sensors · models without a datasheet page



Q30 Rectangular Photoelectric Sensor

Sn 1m | Through-beam | IP67

DETECTION TYPE
Through-beam

SENSING DISTANCE
1m

LIGHT SOURCE
Red light 650nm

HOUSING
ABS

LENS
PMMA

CONNECTION
Cable 2m

OPERATING VOLTAGE
12-24VDC

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP67

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFTP-R30-E1R100-PC2	10104949	Emitter
BFTP-R30-N31R100-PC2	10104950	NPN Light-on/Dark-on
BFTP-R30-P31R100-PC2	10104951	PNP Light-on/Dark-on

Q31 RECTANGULAR



Q31 Rectangular Photoelectric Sensor

Sn 1m | Diffuse | IP65

DETECTION TYPE
Diffuse

SENSING DISTANCE
1m

LIGHT SOURCE
Infrared light 850nm

HOUSING
ABS

LENS
PC

CONNECTION
M8 connector 4pin

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFDP-R31-N31I100-S84-Y	10105328	NPN Light-on/Dark-on
BFDP-R31-P31I100-S84-Y	10105329	PNP Light-on/Dark-on



Q31 Rectangular Photoelectric Sensor

Sn 2-50mm | Background suppression | IP65

DETECTION TYPE
Background suppression

SENSING DISTANCE
2-50mm

LIGHT SOURCE
Red light 650nm

HOUSING
ABS

LENS
PC

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
1000Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFBP-R31-N11R5.0-PC2	10105117	NPN NO
BFBP-R31-N21R5.0-PC2	10105118	NPN NC
BFBP-R31-P11R5.0-PC2	10105119	PNP NO
BFBP-R31-P21R5.0-PC2	10105120	PNP NC



Q31 Rectangular Photoelectric Sensor

Sn 2-50mm | Background suppression | IP65

DETECTION TYPE
Background suppression

SENSING DISTANCE
2-50mm

LIGHT SOURCE
Red light 650nm

HOUSING
ABS

LENS
PC

CONNECTION
M8 connector 4pin

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
1000Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFBP-R31-N11R5.0-S84	10105121	NPN NO
BFBP-R31-N21R5.0-S84	10105122	NPN NC
BFBP-R31-P11R5.0-S84	10105123	PNP NO
BFBP-R31-P21R5.0-S84	10105124	PNP NC

Other Models — Order List

Photoelectric Sensors · models without a datasheet page



Q31 Rectangular Photoelectric Sensor

Sn 2m | Retro-reflective | IP65

DETECTION TYPE
Retro-reflective

SENSING DISTANCE
2m

LIGHT SOURCE
Infrared light 850nm

HOUSING
ABS

LENS
PC

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ACCESSORIES
FR-D51

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFRP-R31-N11I200-PC2-Y	10104991	NPN NO
BFRP-R31-N21I200-PC2-Y	10104992	NPN NC
BFRP-R31-P11I200-PC2-Y	10104993	PNP NO
BFRP-R31-P21I200-PC2-Y	10104994	PNP NC



Q31 Rectangular Photoelectric Sensor

Sn 2m | Retro-reflective | IP65

DETECTION TYPE
Retro-reflective

SENSING DISTANCE
2m

LIGHT SOURCE
Infrared light 850nm

HOUSING
ABS

LENS
PC

CONNECTION
M8 connector 4pin

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ACCESSORIES
FR-D51

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFRP-R31-N11I200-S84-Y	10105027	NPN NO
BFRP-R31-N21I200-S84-Y	10105028	NPN NC
BFRP-R31-P11I200-S84-Y	10105029	PNP NO
BFRP-R31-P21I200-S84-Y	10105030	PNP NC



Q31 Rectangular Photoelectric Sensor

Sn 2m | Retro-reflective | IP65

DETECTION TYPE
Retro-reflective

SENSING DISTANCE
2m

LIGHT SOURCE
Laser 650nm

HOUSING
ABS

LENS
PC

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ACCESSORIES
FR-D51

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFRP-R31-N11L200-PC2	10105055	NPN NO
BFRP-R31-N21L200-PC2	10105056	NPN NC
BFRP-R31-P11L200-PC2	10105057	PNP NO
BFRP-R31-P21L200-PC2	10105058	PNP NC



Q31 Rectangular Photoelectric Sensor

Sn 2m | Retro-reflective | IP65

DETECTION TYPE
Retro-reflective

SENSING DISTANCE
2m

LIGHT SOURCE
Laser 650nm

HOUSING
ABS

LENS
PC

CONNECTION
M8 connector 4pin

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ACCESSORIES
FR-D51

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFRP-R31-N11L200-S84	10105063	NPN NO
BFRP-R31-N21L200-S84	10105064	NPN NC
BFRP-R31-P11L200-S84	10105065	PNP NO
BFRP-R31-P21L200-S84	10105066	PNP NC

Other Models — Order List

Photoelectric Sensors · models without a datasheet page



Q31 Rectangular Photoelectric Sensor

Sn 2m | Retro-reflective | IP65

DETECTION TYPE
Retro-reflective

SENSING DISTANCE
2m

LIGHT SOURCE
Red light 650nm

HOUSING
ABS

LENS
PC

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

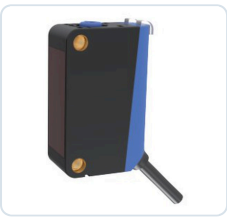
AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ACCESSORIES
FR-D51

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFRP-R31-N11R200-PC2	10104983	NPN NO
BFRP-R31-N21R200-PC2	10104984	NPN NC
BFRP-R31-P11R200-PC2	10104985	PNP NO
BFRP-R31-P21R200-PC2	10104986	PNP NC



Q31 Rectangular Photoelectric Sensor

Sn 2m | Retro-reflective | IP65

DETECTION TYPE
Retro-reflective

SENSING DISTANCE
2m

LIGHT SOURCE
Red light 650nm

HOUSING
ABS

LENS
PC

CONNECTION
M8 connector 4pin

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ACCESSORIES
FR-D51

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFRP-R31-N11R200-S84	10105019	NPN NO
BFRP-R31-N21R200-S84	10105020	NPN NC
BFRP-R31-P11R200-S84	10105021	PNP NO
BFRP-R31-P21R200-S84	10105022	PNP NC



Q31 Rectangular Photoelectric Sensor

Sn 2m | Retro-reflective | IP65

DETECTION TYPE
Retro-reflective

SENSING DISTANCE
2m

LIGHT SOURCE
Infrared light 850nm

HOUSING
ABS

LENS
PC

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFRP-R31-N31I200-PC2-Y	10105334	NPN Light-on/Dark-on
BFRP-R31-P31I200-PC2-Y	10105335	PNP Light-on/Dark-on



Q31 Rectangular Photoelectric Sensor

Sn 2m | Retro-reflective | IP65

DETECTION TYPE
Retro-reflective

SENSING DISTANCE
2m

LIGHT SOURCE
Laser 650nm

HOUSING
ABS

LENS
PC

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFRP-R31-N31L200-PC2-LD	10105374	NPN Light-on/Dark-on
BFRP-R31-P31L200-PC2-LD	10105375	PNP Light-on/Dark-on

Other Models — Order List

Photoelectric Sensors · models without a datasheet page



Q31 Rectangular Photoelectric Sensor

Sn 2m | Retro-reflective | IP65

DETECTION TYPE
Retro-reflective

SENSING DISTANCE
2m

LIGHT SOURCE
Laser 650nm

HOUSING
ABS

LENS
PC

CONNECTION
M8 connector 4pin

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFRP-R31-N31L200-S84-LD	10105394	NPN Light-on/Dark-on
BFRP-R31-P31L200-S84-LD	10105395	PNP Light-on/Dark-on



Q31 Rectangular Photoelectric Sensor

Sn 2m | Retro-reflective | IP65

DETECTION TYPE
Retro-reflective

SENSING DISTANCE
2m

LIGHT SOURCE
Red light 650nm

HOUSING
ABS

LENS
PC

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFRP-R31-N31R200-PC2-1	10105330	NPN Light-on/Dark-on
BFRP-R31-P31R200-PC2-1	10105331	PNP Light-on/Dark-on
BFRP-R31-N31R200-PC2-LD	10105370	NPN Light-on/Dark-on
BFRP-R31-P31R200-PC2-LD	10105371	PNP Light-on/Dark-on



Q31 Rectangular Photoelectric Sensor

Sn 2m | Retro-reflective | IP65

DETECTION TYPE
Retro-reflective

SENSING DISTANCE
2m

LIGHT SOURCE
Red light 650nm

HOUSING
ABS

LENS
PC

CONNECTION
M8 connector 4pin

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFRP-R31-N31R200-S84-LD	10105390	NPN Light-on/Dark-on
BFRP-R31-P31R200-S84-LD	10105391	PNP Light-on/Dark-on



Q31 Rectangular Photoelectric Sensor

Sn 4m | Retro-reflective | IP65

DETECTION TYPE
Retro-reflective

SENSING DISTANCE
4m

LIGHT SOURCE
Infrared light 850nm

HOUSING
ABS

LENS
PC

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ACCESSORIES
HL-08

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFRP-R31-N11I400-PC2-Y	10104995	NPN NO
BFRP-R31-N21I400-PC2-Y	10104996	NPN NC
BFRP-R31-P11I400-PC2-Y	10104997	PNP NO
BFRP-R31-P21I400-PC2-Y	10104998	PNP NC

Other Models — Order List

Photoelectric Sensors · models without a datasheet page



Q31 Rectangular Photoelectric Sensor

Sn 4m | Retro-reflective | IP65

DETECTION TYPE
Retro-reflective

SENSING DISTANCE
4m

LIGHT SOURCE
Infrared light 850nm

HOUSING
ABS

LENS
PC

CONNECTION
M8 connector 4pin

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ACCESSORIES
HL-08

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFRP-R31-N11I400-S84-Y	10105031	NPN NO
BFRP-R31-N21I400-S84-Y	10105032	NPN NC
BFRP-R31-P11I400-S84-Y	10105033	PNP NO
BFRP-R31-P21I400-S84-Y	10105034	PNP NC



Q31 Rectangular Photoelectric Sensor

Sn 4m | Retro-reflective | IP65

DETECTION TYPE
Retro-reflective

SENSING DISTANCE
4m

LIGHT SOURCE
Laser 650nm

HOUSING
ABS

LENS
PC

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ACCESSORIES
HL-08

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFRP-R31-N11L400-PC2	10105059	NPN NO
BFRP-R31-N21L400-PC2	10105060	NPN NC
BFRP-R31-P11L400-PC2	10105061	PNP NO
BFRP-R31-P21L400-PC2	10105062	PNP NC



Q31 Rectangular Photoelectric Sensor

Sn 4m | Retro-reflective | IP65

DETECTION TYPE
Retro-reflective

SENSING DISTANCE
4m

LIGHT SOURCE
Laser 650nm

HOUSING
ABS

LENS
PC

CONNECTION
M8 connector 4pin

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ACCESSORIES
HL-08

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFRP-R31-N11L400-S84	10105067	NPN NO
BFRP-R31-N21L400-S84	10105068	NPN NC
BFRP-R31-P11L400-S84	10105069	PNP NO
BFRP-R31-P21L400-S84	10105070	PNP NC



Q31 Rectangular Photoelectric Sensor

Sn 4m | Retro-reflective | IP65

DETECTION TYPE
Retro-reflective

SENSING DISTANCE
4m

LIGHT SOURCE
Red light 650nm

HOUSING
ABS

LENS
PC

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ACCESSORIES
HL-08

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFRP-R31-N11R400-PC2	10104987	NPN NO
BFRP-R31-N21R400-PC2	10104988	NPN NC
BFRP-R31-P11R400-PC2	10104989	PNP NO
BFRP-R31-P21R400-PC2	10104990	PNP NC

Other Models — Order List

Photoelectric Sensors · models without a datasheet page



Q31 Rectangular Photoelectric Sensor

Sn 4m | Retro-reflective | IP65

DETECTION TYPE
Retro-reflective

SENSING DISTANCE
4m

LIGHT SOURCE
Red light 650nm

HOUSING
ABS

LENS
PC

CONNECTION
M8 connector 4pin

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ACCESSORIES
HL-08

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFRP-R31-N11R400-S84	10105023	NPN NO
BFRP-R31-N21R400-S84	10105024	NPN NC
BFRP-R31-P11R400-S84	10105025	PNP NO
BFRP-R31-P21R400-S84	10105026	PNP NC



Q31 Rectangular Photoelectric Sensor

Sn 4m | Retro-reflective | IP65

DETECTION TYPE
Retro-reflective

SENSING DISTANCE
4m

LIGHT SOURCE
Infrared light 850nm

HOUSING
ABS

LENS
PC

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFRP-R31-N31I400-PC2-Y	10105336	NPN Light-on/Dark-on
BFRP-R31-P31I400-PC2-Y	10105337	PNP Light-on/Dark-on



Q31 Rectangular Photoelectric Sensor

Sn 4m | Retro-reflective | IP65

DETECTION TYPE
Retro-reflective

SENSING DISTANCE
4m

LIGHT SOURCE
Laser 650nm

HOUSING
ABS

LENS
PC

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFRP-R31-N31L400-PC2-LD	10105376	NPN Light-on/Dark-on
BFRP-R31-P31L400-PC2-LD	10105377	PNP Light-on/Dark-on



Q31 Rectangular Photoelectric Sensor

Sn 4m | Retro-reflective | IP65

DETECTION TYPE
Retro-reflective

SENSING DISTANCE
4m

LIGHT SOURCE
Laser 650nm

HOUSING
ABS

LENS
PC

CONNECTION
M8 connector 4pin

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFRP-R31-N31L400-S84-LD	10105396	NPN Light-on/Dark-on
BFRP-R31-P31L400-S84-LD	10105397	PNP Light-on/Dark-on

Other Models — Order List

Photoelectric Sensors · models without a datasheet page



Q31 Rectangular Photoelectric Sensor

Sn 4m | Retro-reflective | IP65

DETECTION TYPE
Retro-reflective

SENSING DISTANCE
4m

LIGHT SOURCE
Red light 650nm

HOUSING
ABS

LENS
PC

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFRP-R31-N31R400-PC2	10105252	NPN NO+NC
BFRP-R31-P31R400-PC2	10105253	PNP NO+NC



Q31 Rectangular Photoelectric Sensor

Sn 4m | Retro-reflective | IP65

DETECTION TYPE
Retro-reflective

SENSING DISTANCE
4m

LIGHT SOURCE
Red light 650nm

HOUSING
ABS

LENS
PC

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFRP-R31-N31R400-PC2-1	10105332	NPN Light-on/Dark-on
BFRP-R31-P31R400-PC2-1	10105333	PNP Light-on/Dark-on
BFRP-R31-N31R400-PC2-LD	10105372	NPN Light-on/Dark-on
BFRP-R31-P31R400-PC2-LD	10105373	PNP Light-on/Dark-on



Q31 Rectangular Photoelectric Sensor

Sn 4m | Retro-reflective | IP65

DETECTION TYPE
Retro-reflective

SENSING DISTANCE
4m

LIGHT SOURCE
Red light 650nm

HOUSING
ABS

LENS
PC

CONNECTION
M8 connector 4pin

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFRP-R31-N31R400-S84	10105254	NPN NO+NC
BFRP-R31-P31R400-S84	10105255	PNP NO+NC



Q31 Rectangular Photoelectric Sensor

Sn 4m | Retro-reflective | IP65

DETECTION TYPE
Retro-reflective

SENSING DISTANCE
4m

LIGHT SOURCE
Red light 650nm

HOUSING
ABS

LENS
PC

CONNECTION
M8 connector 4pin

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFRP-R31-N31R400-S84-LD	10105392	NPN Light-on/Dark-on
BFRP-R31-P31R400-S84-LD	10105393	PNP Light-on/Dark-on

Other Models — Order List

Photoelectric Sensors · models without a datasheet page



Q31 Rectangular Photoelectric Sensor

Sn 4m | Retro-reflective | IP65

DETECTION TYPE
Retro-reflective

SENSING DISTANCE
4m

LIGHT SOURCE
Infrared light 880nm

HOUSING
ABS

LENS
PMMA

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ACCESSORIES
HL-08

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFRP-R31-P31I400-PC2-N	10104893	PNP Light-on/Dark-on



Q31 Rectangular Photoelectric Sensor

Sn 5m | Through-beam | IP65

DETECTION TYPE
Through-beam

SENSING DISTANCE
5m

LIGHT SOURCE
Infrared light 850nm

HOUSING
ABS

LENS
PC

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFTP-R31-E1I500-PC2-Y	10104973	Emitter
BFTP-R31-N11I500-PC2-Y	10104974	NPN NO
BFTP-R31-N21I500-PC2-Y	10104975	NPN NC
BFTP-R31-P11I500-PC2-Y	10104976	PNP NO
BFTP-R31-P21I500-PC2-Y	10104977	PNP NC



Q31 Rectangular Photoelectric Sensor

Sn 5m | Through-beam | IP65

DETECTION TYPE
Through-beam

SENSING DISTANCE
5m

LIGHT SOURCE
Infrared light 850nm

HOUSING
ABS

LENS
PC

CONNECTION
M8 connector 4pin

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFTP-R31-E1I500-S84-Y	10105009	Emitter
BFTP-R31-N11I500-S84-Y	10105010	NPN NO
BFTP-R31-N21I500-S84-Y	10105011	NPN NC
BFTP-R31-P11I500-S84-Y	10105012	PNP NO
BFTP-R31-P21I500-S84-Y	10105013	PNP NC



Q31 Rectangular Photoelectric Sensor

Sn 5m | Through-beam | IP65

DETECTION TYPE
Through-beam

SENSING DISTANCE
5m

LIGHT SOURCE
Red light 650nm

HOUSING
ABS

LENS
PC

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFTP-R31-E1R500-PC2-1	10104963	Emitter
BFTP-R31-N11R500-PC2-1	10104964	NPN NO
BFTP-R31-N21R500-PC2-1	10104965	NPN NC
BFTP-R31-P11R500-PC2-1	10104966	PNP NO
BFTP-R31-P21R500-PC2-1	10104967	PNP NC

Other Models — Order List

Photoelectric Sensors · models without a datasheet page



Q31 Rectangular Photoelectric Sensor

Sn 5m | Through-beam | IP65

DETECTION TYPE
Through-beam

SENSING DISTANCE
5m

LIGHT SOURCE
Red light 650nm

HOUSING
ABS

LENS
PC

CONNECTION
M8 connector 4pin

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFTP-R31-E1R500-S84-1	10104999	Emitter
BFTP-R31-N11R500-S84-1	10105000	NPN NO
BFTP-R31-N21R500-S84-1	10105001	NPN NC
BFTP-R31-P11R500-S84-1	10105002	PNP NO
BFTP-R31-P21R500-S84-1	10105003	PNP NC



Q31 Rectangular Photoelectric Sensor

Sn 5m | Through-beam | IP65

DETECTION TYPE
Through-beam

SENSING DISTANCE
5m

LIGHT SOURCE
Laser 650nm

HOUSING
ABS

LENS
PC

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFTP-R31-N11L500-PC2	10105036	NPN NO
BFTP-R31-N21L500-PC2	10105037	NPN NC
BFTP-R31-P11L500-PC2	10105038	PNP NO
BFTP-R31-P21L500-PC2	10105039	PNP NC



Q31 Rectangular Photoelectric Sensor

Sn 5m | Through-beam | IP65

DETECTION TYPE
Through-beam

SENSING DISTANCE
5m

LIGHT SOURCE
Laser 650nm

HOUSING
ABS

LENS
PC

CONNECTION
M8 connector 4pin

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFTP-R31-N11L500-S84	10105046	NPN NO
BFTP-R31-N21L500-S84	10105047	NPN NC
BFTP-R31-P11L500-S84	10105048	PNP NO
BFTP-R31-P21L500-S84	10105049	PNP NC



Q31 Rectangular Photoelectric Sensor

Sn 10-250mm | Background suppression | IP65

DETECTION TYPE
Background suppression

SENSING DISTANCE
10-250mm

LIGHT SOURCE
Blue light 465nm

HOUSING
ABS

LENS
PC

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
1000Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFBP-R31-N11B25-PC2	10105101	NPN NO
BFBP-R31-N21B25-PC2	10105102	NPN NC
BFBP-R31-P11B25-PC2	10105103	PNP NO
BFBP-R31-P21B25-PC2	10105104	PNP NC

Other Models — Order List

Photoelectric Sensors · models without a datasheet page



Q31 Rectangular Photoelectric Sensor

Sn 10-250mm | Background suppression | IP65

DETECTION TYPE
Background suppression

SENSING DISTANCE
10-250mm

LIGHT SOURCE
Blue light 465nm

HOUSING
ABS

LENS
PC

CONNECTION
M8 connector 4pin

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
1000Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFBP-R31-N11B25-S84	10105105	NPN NO
BFBP-R31-N21B25-S84	10105106	NPN NC
BFBP-R31-P11B25-S84	10105107	PNP NO
BFBP-R31-P21B25-S84	10105108	PNP NC



Q31 Rectangular Photoelectric Sensor

Sn 10-250mm | Background suppression | IP65

DETECTION TYPE
Background suppression

SENSING DISTANCE
10-250mm

LIGHT SOURCE
Laser 650nm

HOUSING
ABS

LENS
PC

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
1000Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFBP-R31-N11L25-PC2	10105109	NPN NO
BFBP-R31-N21L25-PC2	10105110	NPN NC
BFBP-R31-P11L25-PC2	10105111	PNP NO
BFBP-R31-P21L25-PC2	10105112	PNP NC



Q31 Rectangular Photoelectric Sensor

Sn 10-250mm | Background suppression | IP65

DETECTION TYPE
Background suppression

SENSING DISTANCE
10-250mm

LIGHT SOURCE
Laser 650nm

HOUSING
ABS

LENS
PC

CONNECTION
M8 connector 4pin

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
1000Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFBP-R31-N11L25-S84	10105113	NPN NO
BFBP-R31-N21L25-S84	10105114	NPN NC
BFBP-R31-P11L25-S84	10105115	PNP NO
BFBP-R31-P21L25-S84	10105116	PNP NC



Q31 Rectangular Photoelectric Sensor

Sn 10-100mm | Background suppression | IP65

DETECTION TYPE
Background suppression

SENSING DISTANCE
10-100mm

LIGHT SOURCE
Red light 650nm

HOUSING
ABS

LENS
PC

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
1000Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFBP-R31-N11R10-PC2-T	10105089	NPN NO
BFBP-R31-N21R10-PC2-T	10105090	NPN NC
BFBP-R31-P11R10-PC2-T	10105091	PNP NO
BFBP-R31-P21R10-PC2-T	10105092	PNP NC

Other Models — Order List

Photoelectric Sensors · models without a datasheet page



Q31 Rectangular Photoelectric Sensor

Sn 10-100mm | Background suppression | IP65

DETECTION TYPE
Background suppression

SENSING DISTANCE
10-100mm

LIGHT SOURCE
Red light 650nm

HOUSING
ABS

LENS
PC

CONNECTION
M8 connector 4pin

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
1000Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFBP-R31-N11R10-S84-T	10105093	NPN NO
BFBP-R31-N21R10-S84-T	10105094	NPN NC
BFBP-R31-P11R10-S84-T	10105095	PNP NO
BFBP-R31-P21R10-S84-T	10105096	PNP NC



Q31 Rectangular Photoelectric Sensor

Sn 10-250mm | Background suppression | IP65

DETECTION TYPE
Background suppression

SENSING DISTANCE
10-250mm

LIGHT SOURCE
Red light 650nm

HOUSING
ABS

LENS
PC

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
1000Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFBP-R31-N11R25-PC2	10105081	NPN NO
BFBP-R31-N21R25-PC2	10105082	NPN NC
BFBP-R31-P11R25-PC2	10105083	PNP NO
BFBP-R31-P21R25-PC2	10105084	PNP NC



Q31 Rectangular Photoelectric Sensor

Sn 10-250mm | Background suppression | IP65

DETECTION TYPE
Background suppression

SENSING DISTANCE
10-250mm

LIGHT SOURCE
Red light 650nm

HOUSING
ABS

LENS
PC

CONNECTION
M8 connector 4pin

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
1000Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFBP-R31-N11R25-S84	10105085	NPN NO
BFBP-R31-N21R25-S84	10105086	NPN NC
BFBP-R31-P11R25-S84	10105087	PNP NO
BFBP-R31-P21R25-S84	10105088	PNP NC



Q31 Rectangular Photoelectric Sensor

Sn 10...250mm | Background suppression | IP65

DETECTION TYPE
Background suppression

SENSING DISTANCE
10...250mm

LIGHT SOURCE
Blue light 465nm

HOUSING
ABS

LENS
PC

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
1000Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFBP-R31-N31B25-PC2-B	10105356	NPN NO/NC
BFBP-R31-P31B25-PC2-B	10105357	PNP NO/NC

Other Models — Order List

Photoelectric Sensors · models without a datasheet page



Q31 Rectangular Photoelectric Sensor

Sn 10...250mm | Background suppression | IP65

DETECTION TYPE
Background suppression

SENSING DISTANCE
10...250mm

LIGHT SOURCE
Laser 650nm

HOUSING
ABS

LENS
PC

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
1000Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFBP-R31-N31L25-PC2-LD	10105368	NPN NO/NC
BFBP-R31-P31L25-PC2-LD	10105369	PNP NO/NC



Q31 Rectangular Photoelectric Sensor

Sn 10...200mm | Background suppression | IP65

DETECTION TYPE
Background suppression

SENSING DISTANCE
10...200mm

LIGHT SOURCE
Red light 650nm

HOUSING
ABS

LENS
PMMA

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
1000Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFBP-R31-N31R25-PC2	10104957	NPN Light-on/Dark-on
BFBP-R31-P31R25-PC2	10104958	PNP Light-on/Dark-on
BFBP-R31-N31R25-PC2-N	10104959	NPN Light-on/Dark-on
BFBP-R31-P31R25-PC2-N	10104960	PNP Light-on/Dark-on



Q31 Rectangular Photoelectric Sensor

Sn 10...250mm | Background suppression | IP65

DETECTION TYPE
Background suppression

SENSING DISTANCE
10...250mm

LIGHT SOURCE
Red light 650nm

HOUSING
ABS

LENS
PC

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
1000Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFBP-R31-N31R25-PC2-LD	10105366	NPN NO/NC
BFBP-R31-P31R25-PC2-LD	10105367	PNP NO/NC



Q31 Rectangular Photoelectric Sensor

Sn 15m | Through-beam | IP65

DETECTION TYPE
Through-beam

SENSING DISTANCE
15m

LIGHT SOURCE
Infrared light 850nm

HOUSING
ABS

LENS
PC

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFTP-R31-E1I1500-PC2-Y	10104978	Emitter
BFTP-R31-N11I1500-PC2-Y	10104979	NPN NO
BFTP-R31-N21I1500-PC2-Y	10104980	NPN NC
BFTP-R31-P11I1500-PC2-Y	10104981	PNP NO
BFTP-R31-P21I1500-PC2-Y	10104982	PNP NC

Other Models — Order List

Photoelectric Sensors · models without a datasheet page



Q31 Rectangular Photoelectric Sensor

Sn 15m | Through-beam | IP65

DETECTION TYPE
Through-beam

SENSING DISTANCE
15m

LIGHT SOURCE
Infrared light 850nm

HOUSING
ABS

LENS
PC

CONNECTION
M8 connector 4pin

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFTP-R31-E1I1500-S84-Y	10105014	Emitter
BFTP-R31-N11I1500-S84-Y	10105015	NPN NO
BFTP-R31-N21I1500-S84-Y	10105016	NPN NC
BFTP-R31-P11I1500-S84-Y	10105017	PNP NO
BFTP-R31-P21I1500-S84-Y	10105018	PNP NC



Q31 Rectangular Photoelectric Sensor

Sn 15m | Through-beam | IP65

DETECTION TYPE
Through-beam

SENSING DISTANCE
15m

LIGHT SOURCE
Red light 650nm

HOUSING
ABS

LENS
PC

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFTP-R31-E1R1500-PC2-1	10104968	Emitter
BFTP-R31-N11R1500-PC2-1	10104969	NPN NO
BFTP-R31-N21R1500-PC2-1	10104970	NPN NC
BFTP-R31-P11R1500-PC2-1	10104971	PNP NO
BFTP-R31-P21R1500-PC2-1	10104972	PNP NC



Q31 Rectangular Photoelectric Sensor

Sn 15m | Through-beam | IP65

DETECTION TYPE
Through-beam

SENSING DISTANCE
15m

LIGHT SOURCE
Red light 650nm

HOUSING
ABS

LENS
PC

CONNECTION
M8 connector 4pin

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFTP-R31-E1R1500-S84-1	10105004	Emitter
BFTP-R31-N11R1500-S84-1	10105005	NPN NO
BFTP-R31-N21R1500-S84-1	10105006	NPN NC
BFTP-R31-P11R1500-S84-1	10105007	PNP NO
BFTP-R31-P21R1500-S84-1	10105008	PNP NC



Q31 Rectangular Photoelectric Sensor

Sn 15m | Through-beam | IP65

DETECTION TYPE
Through-beam

SENSING DISTANCE
15m

LIGHT SOURCE
Laser 650nm

HOUSING
ABS

LENS
PC

CONNECTION
Cable 2m

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFTP-R31-N31L1500-PC2	10105271	NPN NO+NC
BFTP-R31-P31L1500-PC2	10105272	PNP NO+NC
BFTP-R31-N11L1500-PC2	10105041	NPN NO
BFTP-R31-N21L1500-PC2	10105042	NPN NC
BFTP-R31-P11L1500-PC2	10105043	PNP NO
BFTP-R31-P21L1500-PC2	10105044	PNP NC

Other Models — Order List

Photoelectric Sensors · models without a datasheet page



Q31 Rectangular Photoelectric Sensor

Sn 15m | Through-beam | IP65

DETECTION TYPE
Through-beam

SENSING DISTANCE
15m

LIGHT SOURCE
Laser 650nm

HOUSING
ABS

LENS
PC

CONNECTION
M8 connector 4pin

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
500Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFTP-R31-N31L1500-S84	10105273	NPN NO+NC
BFTP-R31-P31L1500-S84	10105274	PNP NO+NC
BFTP-R31-N11L1500-S84	10105051	NPN NO
BFTP-R31-N21L1500-S84	10105052	NPN NC
BFTP-R31-P11L1500-S84	10105053	PNP NO
BFTP-R31-P21L1500-S84	10105054	PNP NC

Q50 RECTANGULAR



Q50 Rectangular Photoelectric Sensor

Sn 0.2...1m | Diffuse | IP65

DETECTION TYPE
Diffuse

SENSING DISTANCE
0.2...1m

LIGHT SOURCE
Infrared light 880nm

HOUSING
PBT

LENS
PMMA

CONNECTION
Cable 2m

OPERATING VOLTAGE
24-240VAC/DC

SWITCHING FREQ.
10Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFDP-R50-U45I100-PC2	10105125	Light-on/Dark-on



Q50 Rectangular Photoelectric Sensor

Sn 0.3...2m | Diffuse | IP65

DETECTION TYPE
Diffuse

SENSING DISTANCE
0.3...2m

LIGHT SOURCE
Infrared light 880nm

HOUSING
PBT

LENS
PMMA

CONNECTION
Cable 2m

OPERATING VOLTAGE
24-240VAC/DC

SWITCHING FREQ.
10Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFDP-R50-U45I200-PC2	10105126	Light-on/Dark-on



Q50 Rectangular Photoelectric Sensor

Sn 5m | Retro-reflective | IP65

DETECTION TYPE
Retro-reflective

SENSING DISTANCE
5m

LIGHT SOURCE
Red light 650nm

HOUSING
PBT

LENS
PMMA

CONNECTION
Cable 2m

OPERATING VOLTAGE
24-240VAC/DC

SWITCHING FREQ.
10Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ACCESSORIES
FR-D51

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFRP-R50-U45R500-PC2	10105127	Light-on/Dark-on

Other Models — Order List

Photoelectric Sensors · models without a datasheet page



Q50 Rectangular Photoelectric Sensor

Sn 25...1000mm | Background suppression | IP65

DETECTION TYPE
Background suppression

SENSING DISTANCE
25...1000mm

LIGHT SOURCE
Red light 650nm

HOUSING
ABS

LENS
PMMA

CONNECTION
M12 connector 4pin

OPERATING VOLTAGE
10-30VDC

SWITCHING FREQ.
300Hz

AMBIENT TEMPERATURE
-25...55°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BFBP-R50-N31R100-S124	10104961	NPN Light-on/Dark-on
BFBP-R50-P31R100-S124	10104962	PNP Light-on/Dark-on

FIBER OPTIC SYSTEMS



Fiber Optic Amplifier

HOUSING DIMENSIONS
Q78 x 9.9 x 30.8 mm

OPERATING VOLTAGE
12...24 VDC

LIGHT TYPE
Red light

OUTPUT CIRCUIT
NPN NO – NC

RESPONSE TIME
50us(HIGH SPEED)/250us (FINE)1ms(SUPER)/16ms(MEGA)

DELAY FUNCTION
Off-delay / On-delay / One-shot

AMBIENT TEMPERATURE
-25...55 °C

AMBIENT HUMIDITY
35...85% RH

SENSITIVITY ADJUSTMENT
Single-turn potentiometer

Product code	SKU	Description
BFFA-R10-N31-PC2	10105288	Q78 x 9.9 x 30.8 mm, NPN NO – NC, plastic housing, cable, High Speed, fiber optic amplifier
BFFA-R10-P31-PC2	10105224	Q78 x 9.9 x 30.8 mm, PNP NO – NC, plastic housing, cable, High Speed, fiber optic amplifier



Fiber Optic Cable — Diffuse

TYPE
Coaxial fiber optic cable

DETECTION METHOD
Diffuse reflection

SENSING DISTANCE
50 mm

OUTER DIAMETER
M3

PLASTIC FIBER CONNECTIONS
Φ0.5mm*1 / Φ0.25mm*9

PLASTIC FIBER DIAMETERS
Φ1.0mm*1 / Φ1.3mm*1

PLASTIC FIBER LENGTH
1m

HOUSING MATERIAL
Stainless steel

CONNECTIONS
PVC

Product code	SKU	Description
BFFD-M03-D50C-PC1	10105225	M3, Coaxial, diffuse, 50mm sensing, plastic, fiber optic cable, 1m
BFFD-M03-D50T-PC1	10105226	M3, Non-Coaxial, diffuse, 50mm sensing, plastic, fiber optic cable, 1m
BFFD-M04-D50C-PC1	10105229	M4, Coaxial, diffuse, 50mm sensing, plastic, fiber optic cable, 1m
BFFD-M04-D50T-PC1	10105230	M4, Non-Coaxial, diffuse, 50mm sensing, plastic, fiber optic cable, 1m
BFFD-M06-D100C-PC1	10105233	M6, Coaxial, diffuse, 100mm sensing, plastic, fiber optic cable, 1m
BFFD-M06-D100T-PC1	10105234	M6, Non-Coaxial, diffuse, 100mm sensing, plastic, fiber optic cable, 1m



Fiber Optic Cable — Through-beam

TYPE
Fiber optic cable

DETECTION METHOD
Through-beam

SENSING DISTANCE
200 mm

OUTER DIAMETER
M3

PLASTIC FIBER CONNECTIONS
Φ0.5mm

PLASTIC FIBER DIAMETERS
Φ1.0mm*1

PLASTIC FIBER LENGTH
1m

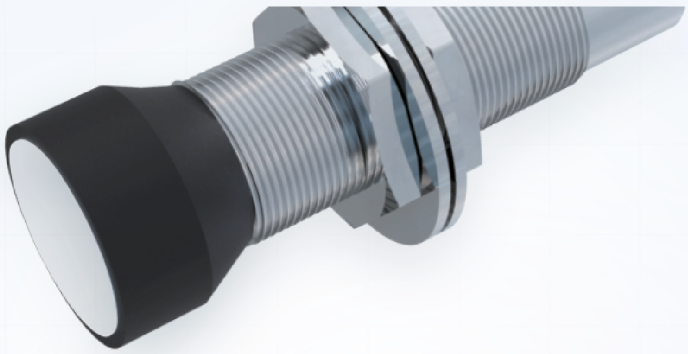
HOUSING MATERIAL
Stainless steel

CONNECTIONS
PVC

Product code	SKU	Description
BFFT-M03-D200C-PC1	10105227	M3, through-beam, 200mm sensing, plastic, fiber optic cable, 1m
BFFT-M03-D400T-PC1	10105228	M3, through-beam, 400mm sensing, plastic, fiber optic cable, 1m
BFFT-M04-D200C-PC1	10105231	M4, through-beam, 200mm sensing, plastic, fiber optic cable, 1m
BFFT-M04-D400T-PC1	10105232	M4, through-beam, 400mm sensing, plastic, fiber optic cable, 1m
BFFT-M06-D400T-PC1	10105235	M6, through-beam, 400mm sensing, plastic, fiber optic cable, 1m

Bexsens
Precision in Every Sense

04



Ultrasonic Sensors

Ultrasonic sensors that detect regardless of colour, transparency and surface. Distance sensors with switching and analog (4-20 mA / 0-10 V) outputs, double sheet detection and label sensors.



45 MODELS

15 SERIES

01
Independent of colour and transparency

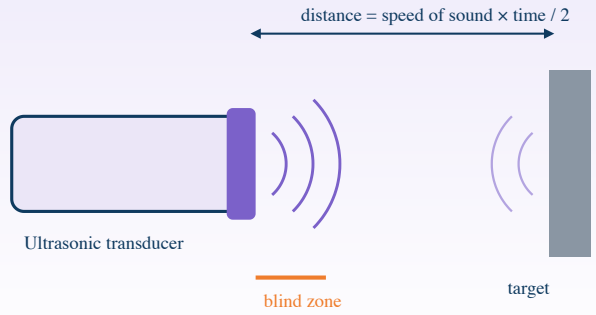
02
Analog 4–20 mA / 0–10 V output

03
Double sheet detection

04
Reliable in dust and steam

TECHNOLOGY

How ultrasonic sensors work



Sound wave and echo time

The transducer emits sound pulses above the range of human hearing and listens for the echo from the object. The distance is calculated from the echo time. Measurement is unaffected by the colour, transparency or gloss of the object.

SELECTION TIPS

- **Blind zone:** no measurement is possible very close to the sensor face; allow for this when mounting.
- **Analog output** (4–20 mA / 0–10 V) is used for continuous distance and level measurement.
- **Double sheet sensors** detect overlapping sheets or paper.
- More stable than optical sensors in **dust, steam and mist**.

TYPICAL APPLICATIONS

- **Liquid and bulk level measurement**
- **Transparent bottle and film detection**
- **Double sheet / plate detection**
- **Label detection**
- **Vehicle and object distance measurement**

SENSING RANGE

Blind zone

No measurement very close to the face.

Operating range

Switching or analog measurement within an adjustable window.

Target angle

The target surface should be perpendicular to the sound axis.

Environment

Unaffected by dust, steam and transparent surfaces.

The angle and absorbency of the target (foam, soft materials) can weaken the echo; use a suitable mounting angle.

QUICK SELECTION

Ultrasonic Sensors

Series grouped by housing type. Click a series code or page number to go to that page.



M18 Cylindrical · Analog Output

1 series · series code, sensing distance, page

BUDM-M18-I100-U100-S125	70...1000mm	284



M18 Cylindrical · Switching Output

1 series · series code, sensing distance, page

BUDM-M18-100-S125	70...1000mm	285



M30 Cylindrical · Analog Output

2 series · series code, sensing distance, page

BUDM-M30-IU200-S125	300...2000mm	286
BUDM-M40-IU400-S125	300...4000mm	287



M30 Cylindrical · Switching Output

2 series · series code, sensing distance, page

BUDM-M30-200-S125	150...2000mm	288
BUDM-M40-400-S125	300...4000mm	289



M12 Ultrasonic Double Sheet Detection Sensor

2 series · series code, sensing distance, page

BUDS-M12-4.0-Z8	20...40mm	290
BUDS-M12-4.0-Z8_15MM	20...40mm	291



M18 Ultrasonic Double Sheet Detection Sensor

5 series · series code, sensing distance, page

BUDS-M18-4.0-Z8	20...40mm	292
BUDS-M18-4.0-Z8X	20...40mm	293
BUDS-M18-6.0-Z8X	20...60mm	294
BUDS-M18-6.0-Z8Y	20...60mm	295
BUDS-M18-7.0-Z8	30...70mm	296



Metal Sheet Double Sheet Detection Sensor

1 series · series code, sensing distance, page

BIDS-N050	30...60mm	297



Ultrasonic Label Sensor (Fork Type)

1 series · series code, sensing distance, page

BUFL-F50-3.0-S84		298

M18 Cylindrical Ultrasonic Sensor — Analog Output

BUDM-M18-I100-U100-S125 series · Sensing Distance: 70...1000mm · Transducer Freq.: 200 kHz

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **70...1000mm**	TRANSDUCER FREQ. **200 kHz**
AMBIENT TEMP. **-25...70°C(248...343K)**	HOUSING **M18*1mm**
BLIND ZONE **0...70mm**	INGRESS PROTECTION **IP65**

MODEL CODES

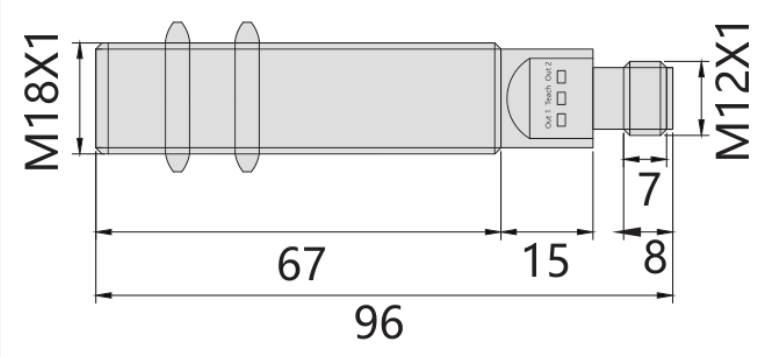
Output Type	≤500Ω	>1000Ω
Analog current / voltage 4-20 mA / 0-10 V	**BUDM-M18-I100-S125** SKU 10105185	**BUDM-M18-U100-S125** SKU 10105186

TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	70...1000mm
Blind zone	0...70mm
Standard detection object	100*100mm
Transducer frequency	200 kHz
Power-on delay	About 1.5s
Yellow LED	Constantly bright: the object is within the detection range; flicker: failure of setting detection range
Green LED	Constantly bright: object is within 1000mm, but out of detection range; flicker: failure of setting detection range
Operating voltage	DC 18...30V, Ripple 10%Vss

No-load current	≤50mA
Output type	**≤500Ω:** 1 analog output 4-20mA **>1000Ω:** 1 analog output 0...10V
Resolution	0.35mm
Characteristic curve deviation	Full scale value's ±1%
Repeatability	Full scale value's ±0.1%
Load impedance	≤500Ω >1000Ω
Temperature drift	Full scale value's ±1.5%
Ambient temperature	-25...70°C(248...343K)
Storage temperature	-40...85°C(233...358K)
Connection	M12 connector(5-Pin)
Ingress protection	IP65
Housing material	Housing: Brass, nickel-plated

DIMENSIONAL DRAWINGS



All dimensions in mm.

M18 Cylindrical Ultrasonic Sensor — Switching Output

BUDM-M18-100-S125 series · Sensing Distance: 70...1000mm · Switching Freq.: Max: 10Hz

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **70...1000mm**	SWITCHING FREQ. **Max: 10Hz**
AMBIENT TEMP. **-25...70°C**	HOUSING **M18*1mm**
BLIND ZONE **0...70mm**	INGRESS PROTECTION **IP65**

MODEL CODES

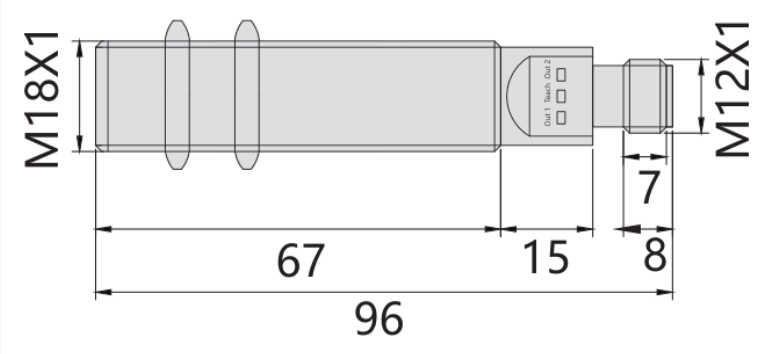
Output Type	Model Code
NPN N.O+N.C	**BUDM-M18-N31100-S125** SKU 10105179
PNP N.O+N.C	**BUDM-M18-P31100-S125** SKU 10105180

TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	70...1000mm
Adjustment range	90...1000mm
Blind zone	0...70mm
Standard detection object	100*100mm
Transducer frequency	200 kHz
Power-on delay	≤400ms
Yellow LED	Constantly bright: indicates the switching status. flicker: object is detected
Red LED	Constantly bright: distance setting failed. flicker: no target detected in Teach-in state
Operating voltage	DC 10...30V, Ripple 10%Vss

No-load current	≤50mA
Output type	Switching output NPN/PNP, NO+NC
Short-circuit / overload protection	Yes
Voltage drop	≤3V
Repeatability	≤1%
Switching frequency	Max: 10Hz
Range hysteresis	1mm
Ambient temperature	-25...70°C
Storage temperature	-40...85°C
Connection	M12 Connector
Ingress protection	IP65
Material	Housing: Brass, nickel-plated

DIMENSIONAL DRAWINGS



All dimensions in mm.

M30 Cylindrical Ultrasonic Sensor — Analog Output

BUDM-M30-IU200-S125 series · Sensing Distance: 300...2000mm · Transducer Freq.: 112k Hz

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **300...2000mm**	TRANSDUCER FREQ. **112k Hz**
AMBIENT TEMP. **-25...70°C(248...343K)**	HOUSING **M30*1.5mm**
BLIND ZONE **0...300mm**	INGRESS PROTECTION **IP65**

MODEL CODES

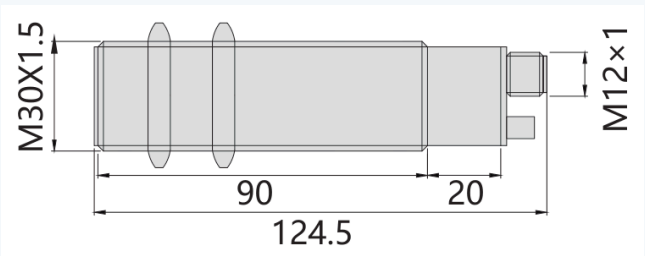
Output Type	Model Code
Analog current / voltage 4-20 mA / 0-10 V	**BUDM-M30-IU200-S125** SKU 10105187

TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	300...2000mm
Adjustment range	340...2000mm
Blind zone	0...300mm
Standard detection object	100mm*100mm
Transducer frequency	112k Hz
Response delay	Factory setting 440ms
Green LED	Constantly bright: power on, flicker: detection at setting status or standby mode
Yellow LED 1	Constantly bright: Target in the detection range; flicker: setting function
Yellow LED 2	Constantly bright: Target in the detection range; flicker: setting function
Red LED	Constantly bright: temperature/setting plug not connected; flicker: no target detected in or error setting state
Temperature / setting plug	Temperature compensation, switching point setting, output function setting
Operating voltage	10...30VDC, ripple 10%Vpp
Power consumption	≤900mW

Synchronization	Two-way; 0-level: -...+1v; 1-level: +4v...+V; input impedance: >12kΩ; synchronization pulse: ≥100 μs, synchronization pulse duration: ≥2ms
Common mode operation	≤13Hz
Multiplex mode operation	≤13Hz/n, n=the NO. of proximity sensors, n≤5
Output type	1 current output 4...20mA; 1 voltage output 0...10V
Characteristic curve deviation	≤0.2% of Full scale value
Repeatability	≤0.1% of Full scale value
Load impedance	Current output: ≤500Ω; voltage output: ≥1000Ω
Temperature drift	≤2% of full scale value(with temperature compensation); ≤0.2%/K(without temperature compensation)
Standard	IEC/EN 60947-5-2
Ambient temperature	-25...70°C(248...343K)
Storage temperature	-40...85°C(233...358K)
Ingress protection	IP65
Connection	M12 connector
Housing material	Brass, nickel-plated

DIMENSIONAL DRAWINGS



All dimensions in mm.

M30 Cylindrical Ultrasonic Sensor — Analog Output

BUDM-M40-IU400-S125 series · Sensing Distance: 300...4000mm · Transducer Freq.: 75k Hz

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **300...4000mm**	TRANSDUCER FREQ. **75k Hz**
AMBIENT TEMP. **-25...70°C(248...343K)**	HOUSING **M30*1.5mm**
BLIND ZONE **0...300mm**	INGRESS PROTECTION **IP65**

MODEL CODES

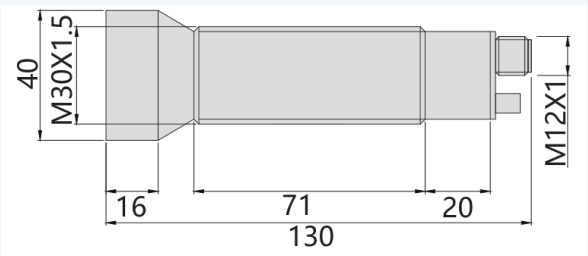
Output Type	Model Code
Analog current / voltage 4-20 mA / 0-10 V	**BUDM-M40-IU400-S125** SKU 10105188

TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	300...4000mm
Adjustment range	340...4000mm
Blind zone	0...300mm
Standard detection object	100mm*100mm
Transducer frequency	75k Hz
Response delay	Factory setting 440ms
Green LED	Constantly bright: power on, flicker: standby mode or detection in setting state
Yellow LED 1	Constantly bright: Target in the detection range; flicker: setting function
Yellow LED 2	Constantly bright: Target in the detection range; flicker: setting function
Red LED	Constantly bright: temperature/setting plug not connected; flicker: error or target not detected in setting state
Temperature / setting plug	Temperature compensation, switching point setting, output function setting
Operating voltage	10...30VDC, ripple 10%Vpp
Power consumption	≤900mW

Synchronization	Two-way; 0-level: -V...+1v; 1-level: +4v...+V; input impedance: >12kΩ; synchronization pulse: ≥100 μs, synchronization pulse duration: ≥2ms
Common mode operation	≤13Hz
Multiplex mode operation	≤13Hz/n, n=the NO. of proximity sensors, n≤5
Output type	1 current output 4...20mA; 1 voltage output 0...10V
Characteristic curve deviation	Full scale value's ≤0.2%
Repeatability	Full scale value's ≤0.1%
Load impedance	Current output: ≤500Ω; voltage output: ≥1000Ω
Temperature drift	≤2% of full scale value(with temperature compensation); ≤0.2%/K(without temperature compensation)
Standard	IEC/EN 60947-5-2
Ambient temperature	-25...70°C(248...343K)
Storage temperature	-40...85°C(233...358K)
Ingress protection	IP65
Connection method	M12 connector
Housing material	Brass, nickel-plated

DIMENSIONAL DRAWINGS



All dimensions in mm.

M30 Cylindrical Ultrasonic Sensor — Switching Output

BUDM-M30-200-S125 series · Sensing Distance: 150...2000mm · Switching Freq.: ≤3Hz

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **150...2000mm**	SWITCHING FREQ. **≤3Hz**
AMBIENT TEMP. **-25...70°C(248...343K)**	HOUSING **M30*1.5mm**
BLIND ZONE **0...150mm**	INGRESS PROTECTION **IP65**

MODEL CODES

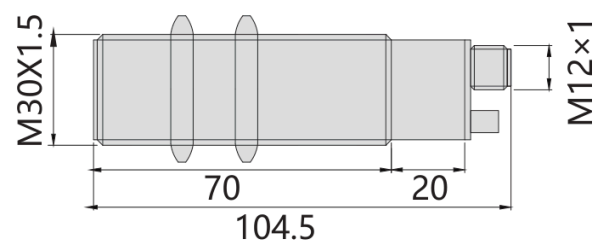
Output Type	Model Code
NPN N.O+N.C	**BUDM-M30-N31200-S125** SKU 10105181
PNP N.O+N.C	**BUDM-M30-P31200-S125** SKU 10105182

TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	150...2000mm
Adjustment range	200...2000mm
Blind zone	0...150mm
Standard detection object	100mm*100mm
Transducer frequency	112k Hz
Response delay	Factory setting 200ms
Green LED	Constantly bright: power on, flicker: standby mode or detection at setting status
Yellow LED 1	Constantly bright: output switching point 1, flicker: setting function
Yellow LED 2	Constantly bright: output switching point 2, flicker: setting function
Red LED	Constantly bright: temperature/setting plug not connected; flicker: no target detected at setting status or error
Temperature / setting plug	Temperature compensation, switch point setting, output function setting
Operating voltage	10...30VDC, Ripple 10%Vpp

No-load current	≤50mA
Synchronization	Two-way; Level 0: -...+1V; Level 1: +4V...+V; Input impedance: >12KΩ; Synchronization pulse: ≥100 μs, synchronization pulse duration: ≥2ms
Common mode operation	≤30Hz
Multiplex mode operation	≤30Hz/n, n= the number of proximity sensors, n≤5
Output type	2 switching output, NPN/PNP NO+NC
Repeatability	≤0.1% full scale value
Rated operating current	200mA
Voltage drop	≤2.5V
Switching frequency	≤3Hz
Temperature drift	≤2% of full scale value (with temperature compensation)
Standard	IEC/EN 60947-5-2
Ambient temperature	-25...70°C(248...343K)
Storage temperature	-40...85°C(233...358K)
Ingress protection	IP65
Connection	M12 Connector
Housing material	Brass, nickel-plated

DIMENSIONAL DRAWINGS



All dimensions in mm.

M30 Cylindrical Ultrasonic Sensor — Switching Output

BUDM-M40-400-S125 series · Sensing Distance: 300...4000mm · Switching Freq.: ≤1Hz

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **300...4000mm**	SWITCHING FREQ. **≤1Hz**
AMBIENT TEMP. **-25...70°C(248...343K)**	HOUSING **M30*1.5mm**
BLIND ZONE **0...300mm**	INGRESS PROTECTION **IP65**

MODEL CODES

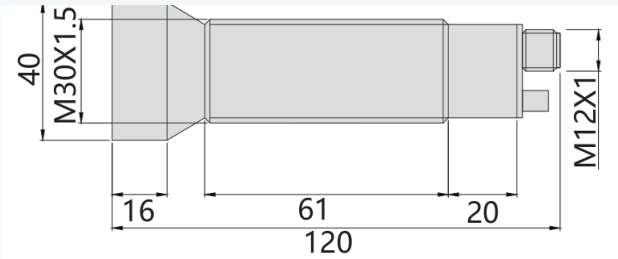
Output Type	Model Code
NPN N.O+N.C	**BUDM-M40-N31400-S125** SKU 10105183
PNP N.O+N.C	**BUDM-M40-P31400-S125** SKU 10105184

TECHNICAL DATA

Exterior structure	M30*1.5mm
Sensing distance	300...4000mm
Adjustment range	340...4000mm
Blind zone	0...300mm
Standard detection object	100mm*100mm
Transducer frequency	75k Hz
Response delay	Factory setting 440ms
Green LED	Constantly bright: power on, flicker: standby mode or detection at setting status
Yellow LED 1	Constantly bright: output switching point 1 status, flicker: setting function
Yellow LED 2	Constantly bright: output switching point 2 status, flicker: setting function
Red LED	Constantly bright: temperature/setting plug not connected; flicker: no target detected or error
Temperature / setting plug	Temperature compensation, switching point setting, output function setting
Operating voltage	10...30VDC, Ripple 10%Vpp

No-load current	≤50mA
Synchronization	Two-way; Level 0: -...+1V; Level 1: +4V...+V; Input impedance: >12KΩ; Synchronization pulse: ≥100 μs, synchronization pulse duration: ≥2ms
Common mode operation	≤13Hz
Multiplex mode operation	≤13Hz/n, n=the number of proximity sensors, n≤5
Output type	2 switching output, NPN/PNP NO+NC
Repeatability	≤0.1% full scale value
Rated operating current	200mA
Voltage drop	≤2.5V
Switching frequency	≤1Hz
Temperature drift	≤2% of full scale value (with temperature compensation)
Standard	IEC/EN 60947-5-2
Ambient temperature	-25...70°C(248...343K)
Storage temperature	-40...85°C(233...358K)
Ingress protection	IP65
Connection	M12 Connector
Housing material	Brass, nickel-plated

DIMENSIONAL DRAWINGS

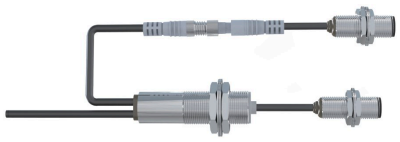


All dimensions in mm.

M12 Ultrasonic Double Sheet Detection Sensor

BUDS-M12-4.0-Z8 series · Sensing Distance: 20...40mm · Transducer Freq.: 500k Hz

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **20...40mm**	TRANSDUCER FREQ. **500k Hz**
AMBIENT TEMP. **+5°C...+60°C**	HOUSING **M12*1mm**
INGRESS PROTECTION **IP65**	

MODEL CODES

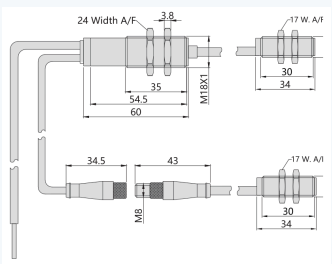
Output Type	Model Code
NPN N.O+N.C	**BUDS-M12-N314.0-Z8** SKU 10105189
PNP N.O+N.C	**BUDS-M12-P314.0-Z8** SKU 10105190

TECHNICAL DATA

Exterior structure	M12*1mm
Sensing distance	20...40mm
Target object range	Paper, cardboard, metal laminated board with weight 20-600g/m², films/foils and self-adhesive films up to 0.2mm thickness
Design	Cylindrical M12 ultrasonic wave transducer
Operating mode	Double sheet control
Detection method	Pulse operation with amplitude evaluation
Transducer frequency	500k Hz
Blind zone	5mm in front of emitter and receiver
Operating voltage	20...30VDC, reverse polarity protection
Ripple voltage	±10%
No-load current consumption	≤50mA
Connection method	2m PUR cable, 7*0.25mm²
Cable	Emitter: 1.2m PVC cable, cable between M8 connector and receiver/transducer: 1.2m PVC
Output	NPN/PNP output; Imax=200mA, Voltage drop: 2V, short circuit protection
Output logic	No-paper status: white wire OFF, black wire ON; Single sheet status: white wire ON, black wire ON; Double/multiple sheets status: white wire ON, black wire OFF

Response time	Automatic running mode: 2.5ms
Power-on delay	<750ms
Gap between emitter and receiver	20...40mm; optimal: 20mm±2mm
Permissible tilting angle	Within ±45° from the sheet perpendicular
Housing material	Brass, nickel-plated
Ultrasonic transducer	PU foam, glass filled epoxy resin
Max. tightening torque of nuts	M18: 15Nm M12: 3Nm
Ingress protection (EN 60529)	IP65
Operating temperature	+5°C...+60°C
Storage temperature	-40°C...+85°C
Control input	Control input: C1 to C3
Control description	<-V +6V:logic 1(control input terminal connect -V or idle)
Range setting	Teaching by control input
Indicator light	Green: single sheet; green flash: teaching; red: double/multiple sheets; red flash: no paper

DIMENSIONAL DRAWINGS



All dimensions in mm.

ULTRASONIC

M12 Ultrasonic Double Sheet Detection Sensor

BUDS-M12-4.0-Z8_15MM series · Sensing Distance: 20...40mm · Transducer Freq.: 500k Hz

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **20...40mm**	TRANSDUCER FREQ. **500k Hz**
AMBIENT TEMP. **+5°C...+60°C**	HOUSING **M12*1mm**
INGRESS PROTECTION **IP65**	

MODEL CODES

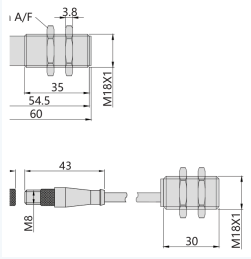
Output Type	Model Code
NPN N.O+N.C	**BUDS-M12-N314.0-Z8/15MM** SKU 10105191
PNP N.O+N.C	**BUDS-M12-P314.0-Z8/15MM** SKU 10105192

TECHNICAL DATA

Exterior structure	M12*1mm
Sensing distance	20...40mm
Target object range	Paper, cardboard, metal laminated board with weight 20-600g/m², films/foils and self-adhesive films up to 0.2mm thickness
Design	Cylindrical M12 ultrasonic wave transducer
Operating mode	Double sheet control
Detection method	Pulse operation with amplitude evaluation
Transducer frequency	500k Hz
Blind zone	5mm in front of emitter and receiver
Operating voltage	20...30VDC, reverse polarity protection
Ripple voltage	±10%
No-load current	≤60mA
Connection method	2m PUR cable, 7*0.25mm²
Emitter cable	Emitter: 1.2m PVC cable, cable between M8 connector and receiver(transducer):1.2m PVC
Output	NPN/PNP output; Imax=200mA, Voltage drop: 2V, short circuit protection
Output logic	No-paper status: white wire OFF, black wire OFF; Single status: white wire ON, black wire OFF; Double/multiple status: white wire OFF, black wire ON

Response time	Automatic running mode: 2.5ms
Power-on delay	<750ms
Gap between emitter and receiver	20-40mm; optimal: 20mm±2mm
Permissible tilting angle	Within ±45° from the sheet perpendicular
Housing material	Brass, nickel-plated
Ultrasonic transducer	PU foam, glass filled epoxy resin
Max. tightening torque of nuts	M18: 15Nm M12: 3Nm
Ingress protection (EN 60529)	IP65
Operating temperature	+5°C...+60°C
Storage temperature	-40°C...+85°C
Control input	Control input: C1 to C3
Control description	<-V +6V:logic 1(control input terminal connect -V or idle)
Range setting	Teaching by control input
Indicator light	Green: single sheet; green flash: teaching; red: double/multiple sheets; red flash: no paper

DIMENSIONAL DRAWINGS

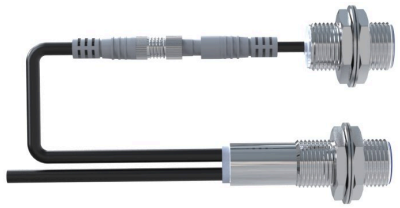


All dimensions in mm.

M18 Ultrasonic Double Sheet Detection Sensor

BUDS-M18-4.0-Z8 series · Sensing Distance: 20...40mm · Transducer Freq.: 400k Hz

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **20...40mm**	TRANSDUCER FREQ. **400k Hz**
AMBIENT TEMP. **+5°C...+60°C**	HOUSING **M18*1mm**
INGRESS PROTECTION **IP65**	

MODEL CODES

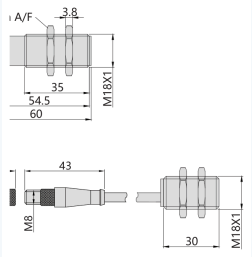
Output Type	Model Code
NPN N.O+N.C	**BUDS-M18-N314.0-Z8** SKU 10105193
PNP N.O+N.C	**BUDS-M18-P314.0-Z8** SKU 10105194

TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	20...40mm
Target object material	Paper, cardboard, metal laminated board with weight 20-1200g/m², films/foils and self-adhesive films up to 0.4mm thickness
Design	Cylindrical M18 ultrasonic wave transducer
Operating mode	Double sheet control
Detection method	Pulse operation with amplitude evaluation
Transducer frequency	400k Hz
Blind zone	5mm in front of emitter and receiver
Operating voltage	20...30VDC, reverse polarity protection
Ripple voltage	±10%
No-load current consumption	≤60mA
Connection method	2m PUR cable, 7*0.25mm²
Emitter cable	Emitter: 1.2m PVC cable, cable between M8 connector and receiver(transducer):1.2m PVC
Output	NPN/PNP output; Imax=200mA, Voltage drop: 2V, short circuit protection
Output logic	No paper status: white wire OFF, black wire OFF; Single status: white wire ON, black wire OFF; Double/multiple status: white wire OFF, black wire ON

Response time	Automatic running mode: 2.5ms
Power-on delay	<750ms
Gap between emitter and receiver	20...40mm; optimal: 20mm±2mm
Permissible tilting angle	Within ±45° from the sheet perpendicular
Housing material	Brass, nickel-plated
Ultrasonic transducer	PU foam, glass filled epoxy resin
Max. tightening torque of nuts	M18: 15Nm
Ingress protection (EN 60529)	IP65
Operating temperature	+5°C...+60°C
Storage temperature	-40°C...+85°C
Control input	Control input: C1 to C3
Control description	<-V+6V: Logic 1(control input terminal-v or idle)
Range setting	Teaching by control input
Indicator light	Green: single sheet; green flash: teaching; red: double/multiple sheets; red flash: no paper

DIMENSIONAL DRAWINGS



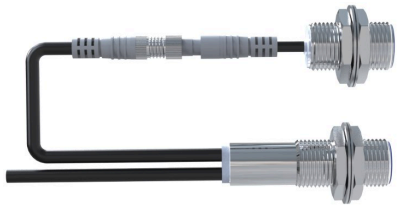
All dimensions in mm.

ULTRASONIC

M18 Ultrasonic Double Sheet Detection Sensor

BUDS-M18-4.0-Z8X series · Sensing Distance: 20...40mm · Transducer Freq.: 400k Hz

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **20...40mm**	TRANSDUCER FREQ. **400k Hz**
AMBIENT TEMP. **+5°C...+60°C**	HOUSING **M18*1mm**
INGRESS PROTECTION **IP65**	

MODEL CODES

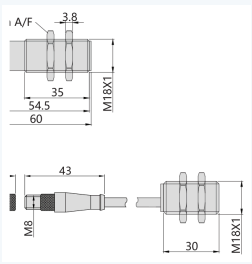
Output Type	Model Code
NPN N.O+N.C	**BUDS-M18-N314.0-Z8X** SKU 10105195
PNP N.O+N.C	**BUDS-M18-P314.0-Z8X** SKU 10105196

TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	20...40mm
Target object material	Paper, cardboard, metal laminated board with weight 20-1200g/m², films/foils and self-adhesive films up to 0.4mm thickness
Design	Cylindrical M18 ultrasonic wave transducer
Operating mode	Double sheet control
Detection method	Pulse operation with amplitude evaluation
Transducer frequency	400k Hz
Blind zone	5mm in front of emitter and receiver
Operating voltage	20...30VDC, reverse polarity protection
Ripple voltage	±10%
No-load current	≤60mA
Connection method	2m PUR cable, 7*0.25mm²
Cable	Emitter: 1.2m PVC cable, cable between M8 connector and receiver: 1.2m PVC
Output	NPN/PNP output; Imax=200mA, Voltage drop: 2V, short circuit protection
Output logic	No paper status: white wire OFF, black wire ON; Single status: white wire ON, black wire ON; Double/multiple status: white wire ON, black wire OFF

Response time	Automatic running mode: 2.5ms
Power-on delay	<750ms
Gap between emitter and receiver	20...40mm; optimal: 20mm±2mm
Permissible tilting angle	Within ±45° from the sheet perpendicular
Housing material	Brass, nickel-plated
Ultrasonic transducer	PU foam, glass filled epoxy resin
Max. tightening torque of nuts	M18: 15Nm
Ingress protection (EN 60529)	IP65
Operating temperature	+5°C...+60°C
Storage temperature	-40°C...+85°C
Control input	Control input: C1 to C3
Control description	<-V+6V: Logic 1(control input terminal-v)
Range setting	Teaching by control input
Indicator light	Green: single sheet; green flash: teaching; red: double/multiple sheets; red flash: no paper

DIMENSIONAL DRAWINGS

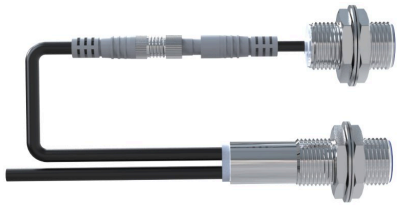


All dimensions in mm.

M18 Ultrasonic Double Sheet Detection Sensor

BUDS-M18-6.0-Z8X series · Sensing Distance: 20...60mm · Transducer Freq.: 200k Hz

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **20...60mm**	TRANSDUCER FREQ. **200k Hz**
AMBIENT TEMP. **+5°C...+60°C**	HOUSING **M18*1mm**
INGRESS PROTECTION **IP65**	

MODEL CODES

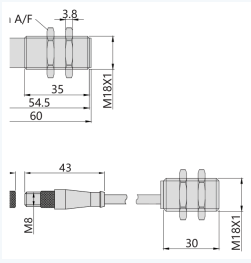
Output Type	Model Code
NPN N.O+N.C	**BUDS-M18-N316.0-Z8X** SKU 10105197
PNP N.O+N.C	**BUDS-M18-P316.0-Z8X** SKU 10105198

TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	20...60mm
Target object material	Papers with weights of 50-1200g/m², Washi, metal-laminated sheets, self-adhesive films
Design	Cylindrical M18 ultrasonic wave transducer
Operating mode	Double sheet control
Detection method	Pulse operation with amplitude evaluation
Transducer frequency	200k Hz
Blind zone	5mm in front of emitter and receiver
Operating voltage	20...30VDC, reverse polarity protection
Ripple voltage	±10%
No-load current	≤60mA
Connection method	2m PUR cable, 7*0.25mm²
Cable	Emitter: 1.2m PVC cable, cable between M8 connector and receiver: 1.2m PVC
Output	NPN/PNP output; Imax=200mA, Voltage drop 2V, short circuit protection
Output logic	No paper status: white wire OFF, black wire ON; Single status: white wire ON, black wire ON; Double/multiple status: white wire ON, black wire OFF

Response time	Automatic running mode: 6.5ms
Power-on delay	<1.9s
Gap between emitter and receiver	20...60mm; optimal: 40mm±5mm
Permissible tilting angle	Within ±45° from the sheet perpendicular
Housing material	Brass, nickel-plated
Ultrasonic transducer	PU foam, glass filled epoxy resin
Max. tightening torque of nuts	M18: 15Nm
Ingress protection (EN 60529)	IP65
Operating temperature	+5°C...+60°C
Storage temperature	-40°C...+85°C
Control input	Control input: C1 to C3
Control description	<-V+6V: Logic 1(control input terminal-v)
Range setting	Teaching by control input
Indicator light	Green: single sheet; green flash: teaching; red: double/multiple sheets; red flash: no paper

DIMENSIONAL DRAWINGS



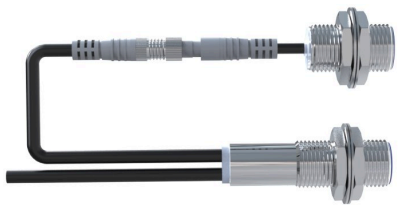
All dimensions in mm.

ULTRASONIC

M18 Ultrasonic Double Sheet Detection Sensor

BUDS-M18-6.0-Z8Y series · Sensing Distance: 20...60mm · Transducer Freq.: 200k Hz

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **20...60mm**	TRANSDUCER FREQ. **200k Hz**
AMBIENT TEMP. **+5°C...+60°C**	HOUSING **M18*1mm**
INGRESS PROTECTION **IP65**	

MODEL CODES

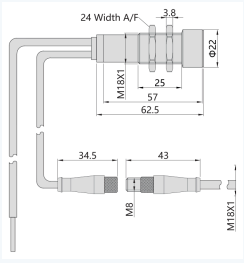
Output Type	Model Code
NPN N.O+N.C	**BUDS-M18-N316.0-Z8Y** SKU 10105199
PNP N.O+N.C	**BUDS-M18-P316.0-Z8Y** SKU 10105200

TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	20...60mm
Target object material	Papers with weights of 50-1200g/m², Washi, metal-laminated sheets, self-adhesive films
Design	Cylindrical M18 ultrasonic wave transducer
Operating mode	Double sheet control
Detection method	Pulse operation with amplitude evaluation
Transducer frequency	200k Hz
Blind zone	5mm in front of emitter and receiver
Operating voltage	20...30VDC, reverse polarity protection
Ripple voltage	±10%
No-load current	≤60mA
Connection method	2m PUR cable, 7*0.25mm²
Cable	Emitter: 1.2m PVC cable, cable between M8 connector and receiver: 1.2m PVC
Output	NPN/PNP output; Imax=200mA, Voltage drop 2V, short circuit protection
Output logic	No paper status: white wire OFF, black wire OFF; Single status: white wire ON, black wire OFF; Double/multiple status: white wire OFF, black wire ON

Response time	Automatic running mode: 6.5ms
Power-on delay	<1.9s
Gap between emitter and receiver	20...60mm; optimal: 40mm±5mm
Permissible tilting angle	Within ±45° from the sheet perpendicular
Housing material	Brass, nickel-plated
Ultrasonic transducer	PU foam, glass filled epoxy resin
Max. tightening torque of nuts	M18: 15Nm
Ingress protection (EN 60529)	IP65
Operating temperature	+5°C...+60°C
Storage temperature	-40°C...+85°C
Control input	Control input: C1 to C3
Control description	<-V+6V: Logic 1(control input terminal-v or idle)
Range setting	Teaching by control input
Indicator light	Green: single sheet; green flash: teaching; red: double/multiple sheets; red flash: no paper

DIMENSIONAL DRAWINGS



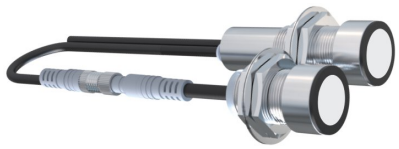
All dimensions in mm.

ULTRASONIC

M18 Ultrasonic Double Sheet Detection Sensor

BUDS-M18-7.0-Z8 series · Sensing Distance: 30...70mm · Transducer Freq.: 200k Hz

IP65
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **30...70mm**	TRANSDUCER FREQ. **200k Hz**
HOUSING **M18*1mm**	INGRESS PROTECTION **IP65**

MODEL CODES

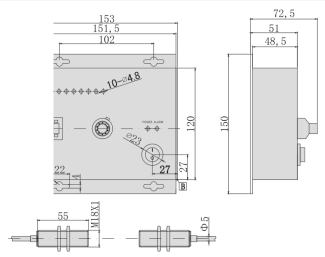
Output Type	Model Code
NPN N.O+N.C	**BUDS-M18-N317.0-Z8** SKU 10105201
PNP N.O+N.C	**BUDS-M18-P317.0-Z8** SKU 10105202

TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	30...70mm
Detection material	Paper with weight 100-1200g/m², thin metal sheet with 1mm thickness, PCB board with 2mm thickness
Design	Cylindrical M18 ultrasonic wave transducer
Operating mode	Double sheet control
Detection method	Pulse operation with amplitude evaluation
Transducer frequency	200k Hz
Blind zone	7mm in front of emitter and receiver
Operating voltage	20...30VDC, reverse polarity protection
Ripple voltage	±10%
No-load current	≤60mA
Connection method	2m PUR cable, 7*0.25mm²
Cable	Emitter: 1.2m PVC cable, cable between M8 connector and receiver(transducer): 1.2m PVC
Output	NPN/PNP output; Imax=200mA(-V+2V), short circuit protection
Output logic	No paper status: white wire OFF, black wire ON, Single status: white wire ON, black wire ON; Double/multiple status: white wire ON; black wire OFF

Response time	Automatic running mode<5.5ms
Power-on delay	<750ms
Gap between emitter and receiver	30...70mm; optimal: 40mm±3mm
Permissible tilting angle	Within ±45° from the sheet perpendicular
Material	Brass, nickel-plated
Ultrasonic transducer	PU foam, glass filled epoxy resin
Max. tightening torque of nuts	15Nm
Ingress protection (EN 60529)	IP65
Operating temperature	+5°C...+60°C
Storage temperature	-40°C...+85°C
Control input	Control input: C1 to C3
Control description	<-V+6V: Logic 1(control input terminal-v) >-V+10V:Logic 0(control input terminal + V or idle)
Range setting	Teaching by control input
Indicator light	Green Light: single; Green light flashing: teaching; Red light: double/multiple; Red Flashing: no paper

DIMENSIONAL DRAWINGS

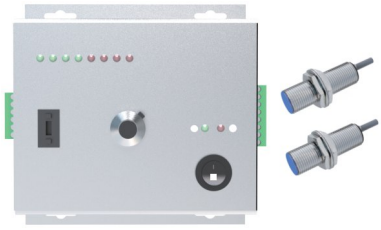


All dimensions in mm.

ULTRASONIC

Metal Sheet Double Sheet Detection Sensor

BIDS-N050 series · Sensing Distance: 30...60mm · Operating Voltage: 110V/220VAC±10%



KEY SPECIFICATIONS

SENSING DISTANCE **30...60mm**	OPERATING VOLTAGE **110V/220VAC±10%**
SWITCHING FREQ. **50/60Hz**	RESPONSE TIME **<50ms**

MODEL CODES

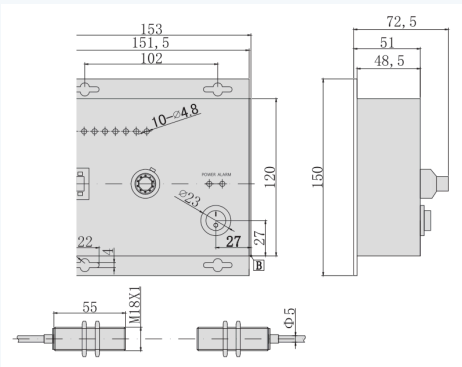
Output Type	Model Code
Host NPN N.O/N.C	**BIDS-N050** SKU 10105203
Sensing elements	**BIDS-M1850-CP5** SKU 10105204

TECHNICAL DATA

Operating voltage	110V/220VAC±10%
Switching frequency	50/60Hz
Detection method	Split design for sensing elements and host
Output	NPN 100mA/<24VDC,250VAC/3A
Response time	<50ms
Sensitivity adjustment	Knob to adjust
LED indicator	Red LED indicator light
Ingress protection	IEC IP20
Ambient temperature / humidity	0...55°C(Non-freezing state)/RH35...85%

Sensing element — BIDS-M1850-CP5	
Sensing distance	30...60mm
Target object thickness	Iron: 0.1...3.5mm; aluminum: 0.1...3.5mm; copper: 0.1...3.5mm; stainless steel: 0.3...3.5mm
Standard detection object	200x200x1(mm) Iron Plate
Ingress protection	IEC IP67
Ambient temperature / humidity	-10...55°C(Non-freezing state)/RH35...85%
Material	Sensor housing: Brass, nickel-plated/Sensing face: PBT
Cable	PVC cable /5m(2*0.35mm²); PVC shielded wire /5m(2*0.35mm²)
Accessories	Screwdriver, nut

DIMENSIONAL DRAWINGS



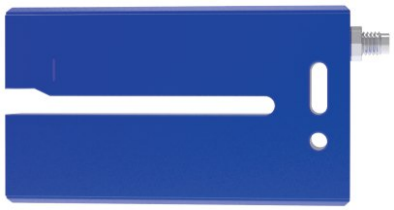
All dimensions in mm.

ULTRASONIC

Ultrasonic Label Sensor (Fork Type)

BUFL-F50-3.0-S84 series · Operating Voltage: 10...30V DC · Switching Freq.: 1500Hz

IP65
Ingress Protection



KEY SPECIFICATIONS

OPERATING VOLTAGE **10...30V DC**	SWITCHING FREQ. **1500Hz**
AMBIENT TEMP. **+5°C...+55°C**	HOUSING **85.6*18.2*53mm**
OUTPUT **NPN/PNP**	INGRESS PROTECTION **IP65**

MODEL CODES

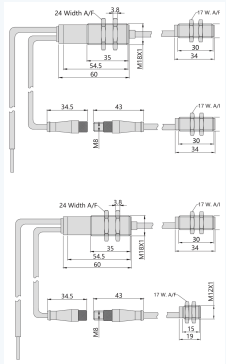
Output Type	Model Code
NPN/PNP	**BUFL-F50-PN3.0-S84** SKU 10105205

TECHNICAL DATA

Size	85.6*18.2*53mm
Fork width	3mm
Fork depth	69mm
Operating voltage	10...30V DC
Ripple voltage	<10%
Current consumption	≤50 mA
Switching frequency	1500Hz
Response time	250 μs
Switching output	NPN/PNP
Switching output (voltage)	PNP:High level=Uv≤2V/ Low level about 0V
Switch type	NO/NC selectable

Output current	100mA
Initialization time	100ms
Connection method	Plug, M8, 4 pins
Protection circuit	Yes
Ingress protection	IP65
Housing material	Aluminium
Ambient temperature	+5°C...+55°C
Storage temperature	-20°C...+70°C
Shock load	EN 60068-2-27
Electromagnetic compatibility	EN60947-5-2

DIMENSIONAL DRAWINGS



All dimensions in mm.

Other Models — Order List

Ultrasonic Sensors · models without a datasheet page

M18 CYLINDRICAL



M18 Cylindrical Ultrasonic Sensor

Sn 35-300mm | IP65

SENSING DISTANCE
35-300mm

CONNECTION
M12 Connector 5pin

OPERATING VOLTAGE
18-30VDC

TRANSDUCER FREQ.
300kHz

AMBIENT TEMPERATURE
-25...70°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BUDM-M18-IU3130-S124	10105428	4-20mA/20-4mA - 0-10V/10-0V



M18 Cylindrical Ultrasonic Sensor

Sn 35-300mm | IP65

SENSING DISTANCE
35-300mm

CONNECTION
M12 connector 4pin

OPERATING VOLTAGE
18-30VDC

TRANSDUCER FREQ.
300kHz

AMBIENT TEMPERATURE
-25...70°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BUDM-M18-N3130-S124	10105422	NPN NO+NC
BUDM-M18-P3130-S124	10105423	PNP NO+NC



M18 Cylindrical Ultrasonic Sensor

Sn 50-500mm | IP65

SENSING DISTANCE
50-500mm

CONNECTION
M12 connector 4pin

OPERATING VOLTAGE
18-30VDC

TRANSDUCER FREQ.
250kHz

AMBIENT TEMPERATURE
-25...70°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BUDM-M18-N3150-S124	10105424	NPN NO+NC
BUDM-M18-P3150-S124	10105425	PNP NO+NC

M30 CYLINDRICAL



M30 Cylindrical Ultrasonic Sensor

Sn 90-1000mm | Analog output | IP65

SENSING DISTANCE
90-1000mm

CONNECTION
M12 connector 4pin

OPERATING VOLTAGE
18-30VDC

TRANSDUCER FREQ.
200kHz

AMBIENT TEMPERATURE
-25...70°C

PROTECTION CLASS
IP65

ISO9001 CE UKCA CQC RoHs

Product code	SKU	Output
BUDP-E30-I100-S124	10105426	4-20mA / 20-4mA
BUDP-E30-U100-S124	10105427	0-10V / 10-0V

Q31 RECTANGULAR



Q31 Rectangular Ultrasonic Sensor

Sn 50-400mm

SENSING DISTANCE
50-400mm

OPERATING VOLTAGE
18-30VDC

AMBIENT TEMPERATURE
-10...50°C

Product code	SKU	Output
BUDP-R31-I3140-S84	10105413	4-20mA / 20-4mA
BUDP-R31-U3140-S84	10105414	0-10V / 10-0V

Other Models — Order List

Ultrasonic Sensors · models without a datasheet page



Q31 Rectangular Ultrasonic Sensor

Sn 50-400mm

SENSING DISTANCE
50-400mm

OPERATING VOLTAGE
18-30VDC

AMBIENT TEMPERATURE
-10...50°C

Product code	SKU	Output
BUDP-R31-N3140-S84	10105411	NPN NO-NC
BUDP-R31-P3140-S84	10105412	PNP NO-NC



Q31 Rectangular Ultrasonic Sensor

Sn 100-800mm

SENSING DISTANCE
100-800mm

OPERATING VOLTAGE
18-30VDC

AMBIENT TEMPERATURE
-10...50°C

Product code	SKU	Output
BUDP-R31-I3180-S84	10105417	4-20mA / 20-4mA
BUDP-R31-U3180-S84	10105418	0-10V / 10-0V



Q31 Rectangular Ultrasonic Sensor

Sn 100-800mm

SENSING DISTANCE
100-800mm

OPERATING VOLTAGE
18-30VDC

AMBIENT TEMPERATURE
-10...50°C

Product code	SKU	Output
BUDP-R31-N3180-S84	10105415	NPN NO-NC
BUDP-R31-P3180-S84	10105416	PNP NO-NC

Q40 RECTANGULAR



Q40 Rectangular Ultrasonic Sensor

Sn 40-400mm

SENSING DISTANCE
40-400mm

OPERATING VOLTAGE
18-30VDC

AMBIENT TEMPERATURE
-25...70°C

Product code	SKU	Output
BUDP-R40-I3140-S124	10105419	4-20mA / 20-4mA
BUDP-R40-U3140-S124	10105420	0-10V / 10-0V

Q80 RECTANGULAR



Q80 Rectangular Ultrasonic Sensor

Sn 85-2000mm

SENSING DISTANCE
85-2000mm

OPERATING VOLTAGE
18-30VDC

AMBIENT TEMPERATURE
-25...70°C

Product code	SKU	Output
BUDP-R80-U31200-S124	10105421	0-10V / 10-0V

05









Accessories

Mounting brackets and reflectors for sensor installation and system setup.

8 MODELS

3 GROUPS

01
Mounting brackets

02
Reflectors

03
Connection solutions

04
System installation

Model List

Accessories · models without a datasheet page

MOUNTING BRACKETS AND REFLECTORS



Mounting Brackets

Product code	SKU	Description
FMIB-D34	10105240	Mounting bracket for Ø34 mm sensors
FMIB-D30	10105241	Mounting bracket for 30 mm sensors
FMIB-Q18	10105242	Mounting bracket for Q18 inductive sensors
FMIB-Q25	10105243	Mounting bracket for Q25 inductive sensors
FMIB-Q30	10105244	Mounting bracket for Q30 inductive sensors
FMIB-Q31	10105245	Mounting bracket for Q31 sensors



Round Reflector

Product code	SKU	Description
FPFR-D83	10105246	Ø82 mm reflector, screw mounting



Rectangular Reflector

Product code	SKU	Description
FPHL-08	10105247	50 x 61 mm rectangular reflector

Product Code Index

Product code · SKU · page

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