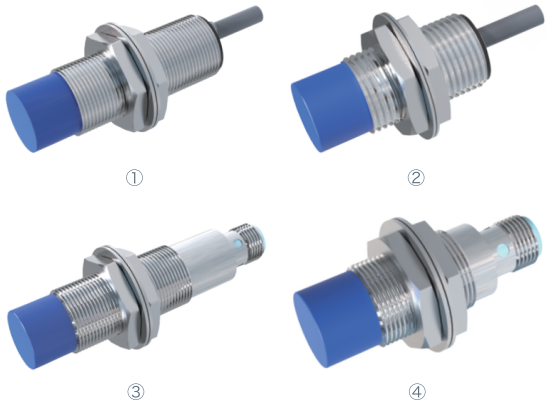
M18 Cylindrical Inductive Proximity Sensor

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

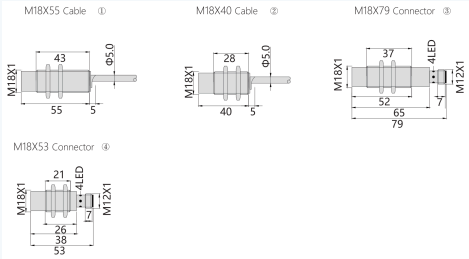
Output Type	①	②	③	④
NPN N.O+N.C	BIDS-M18-N31N16-PC2 SKU 10103947	BIDS-M18-N31N16-PC2-S SKU 10103949	BIDS-M18-N31N16-S124 SKU 10103951	BIDS-M18-N31N16-S124-S SKU 10103953
PNP N.O+N.C	BIDS-M18-P31N16-PC2 SKU 10103948	BIDS-M18-P31N16-PC2-S SKU 10103950	BIDS-M18-P31N16-S124 SKU 10103952	BIDS-M18-P31N16-S124-S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