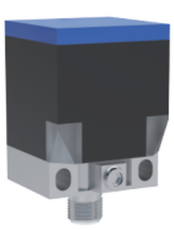
Q40S / Q80 Rectangular Inductive Proximity Sensor

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

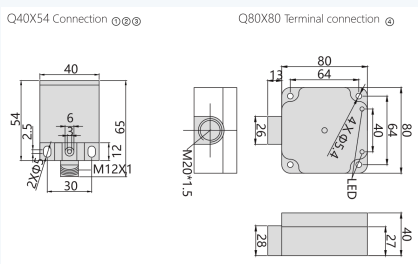
Output Type	①	②	③	④
NPN N.O+N.C	**BIDP-R40-N31F15-S124-S** SKU 10104583	**BIDP-R40-N31N20-S124-S** SKU 10104585	**BIDP-R40-N31N30-S124-S** SKU 10104587	**BIDP-R80-N31N50-T** SKU 10104631
PNP N.O+N.C	**BIDP-R40-P31F15-S124-S** SKU 10104584	**BIDP-R40-P31N20-S124-S** SKU 10104586	**BIDP-R40-P31N30-S124-S**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