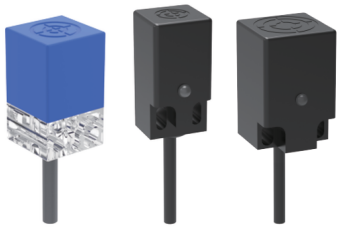
Q17 / Q18 / Q25 Rectangular Inductive Proximity Sensor

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

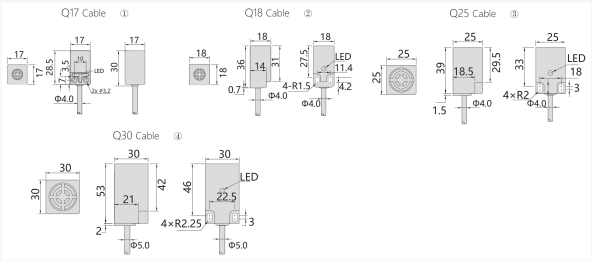
Output Type	①	②	③
NPN N.O	**BIDP-R17-N11F5.0-PC2** SKU 10104456	**BIDP-R18-N11F5.0-PC2** SKU 10104460	**BIDP-R25-N11N10-PC2** SKU 10104464
NPN N.C	**BIDP-R17-N21F5.0-PC2** SKU 10104457	**BIDP-R18-N21F5.0-PC2** SKU 10104461	**BIDP-R25-N21N10-PC2** SKU 10104465
PNP N.O	**BIDP-R17-P11F5.0-PC2** SKU 10104458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