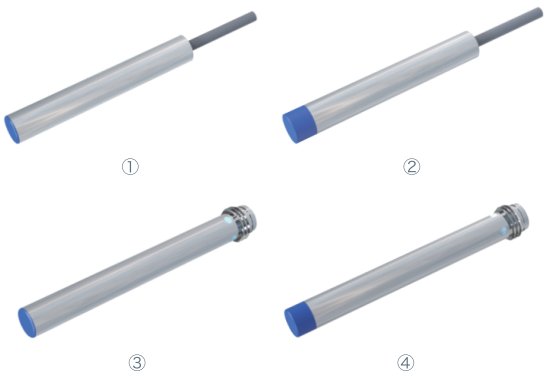
Φ6.5 Cylindrical Capacitive Proximity Sensor

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

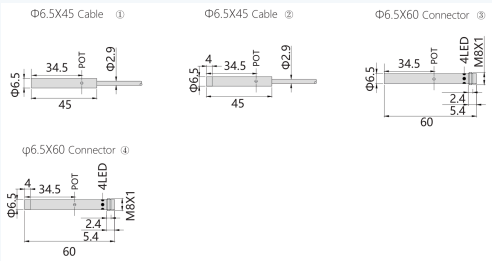
Output Type	①	②	③	④
NPN N.O	**BCDS-Q6.5-N11F1.0-PC2** SKU 10102601	**BCDS-Q6.5-N11N2.0-PC2** SKU 10102605	**BCDS-Q6.5-N11F1.0-S83** SKU 10102609	**BCDS-Q6.5-N11N2.0-S83** SKU 10102613
NPN N.C	**BCDS-Q6.5-N21F1.0-PC2** SKU 10102602	**BCDS-Q6.5-N21N2.0-PC2** SKU 10102606	**BCDS-Q6.5-N21F1.0-S83** SKU 10102610	**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.