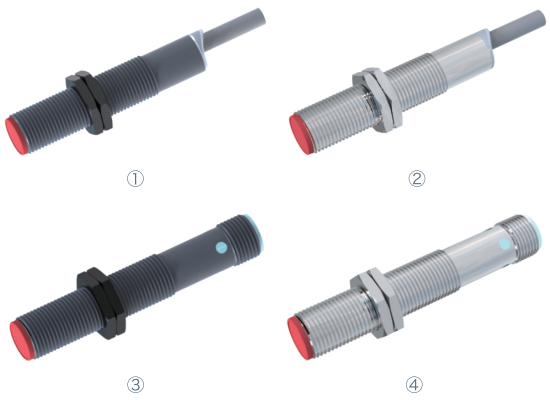
M12 Cylindrical Photoelectric Sensor

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

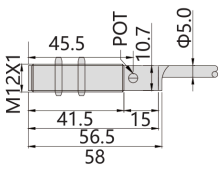
TECHNICAL DATA

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

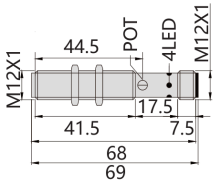
Ingress protection	IP66
Lens material	PMMA
Operation indicator	Yellow
Connection	①: 2m PVC Cable, 4*0.25mm² ②: 2m PVC Cable, 4*0.25mm² ③: M12Connector ④: M12Connector
Accessories	①: None ②: None ③: M12 4 pin cable with connector ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

M12X58 Cable ①



M12X69 Connector ②



All dimensions in mm.