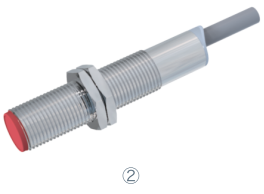
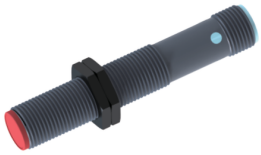
M12 Cylindrical Photoelectric Sensor

BFDP-M12-N31I20-PC2 series · Sensing Distance: 200mm · Operating Voltage: 10...30V DC

IP66
Ingress Protection


①


②


③


④

KEY SPECIFICATIONS

SENSING DISTANCE **200mm**	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	**BFDP-M12-N31I20-PC2** SKU 10104748	**BFDM-M12-N31I20-PC2** SKU 10104750	**BFDP-M12-N31I20-S124** SKU 10104752	**BFDM-M12-N31I20-S124** SKU 10104754
PNP N.O+N.C	**BFDP-M12-P31I20-PC2** SKU 10104749	**BFDM-M12-P31I20-PC2** SKU 10104751	**BFDP-M12-P31I20-S124** SKU 10104753	**BFDM-M12-P31I20-S124** SKU 10104755

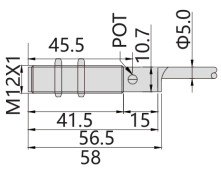
TECHNICAL DATA

Exterior structure	M12*1mm
Sensing distance	200mm
Detection type	Diffuse reflection
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
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

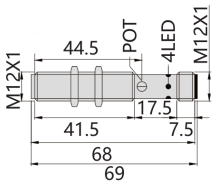
Ingress protection	IP66
Lens material	PMMA
Operation indicator	Yellow
Connection	①: 2m PVC Cable, 4*0.25mm² ②: 2m PVC Cable, 4*0.25mm² ③: M12 Connecor ④: M12 Connecor
Accessories	①: None ②: None ③: M12 4 pin cable with connector ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

M12X58 Cable ①



M12X69 Connecor ②



All dimensions in mm.