M18 Cylindrical Photoelectric Sensor

BFRP-M18-N31I300-PC2 series · Sensing Distance: 0.1...3m · Operating Voltage: 10...30V DC

IP66
Ingress Protection


①


②


③


④

KEY SPECIFICATIONS

SENSING DISTANCE **0.1...3m**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **M18*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-M18-N31I300-PC2** SKU 10104794	**BFRM-M18-N31I300-PC2** SKU 10104796	**BFRP-M18-N31I300-S124** SKU 10104798	**BFRM-M18-N31I300-S124** SKU 10104800
PNP N.O+N.C	**BFRP-M18-P31I300-PC2** SKU 10104795	**BFRM-M18-P31I300-PC2** SKU 10104797	**BFRP-M18-P31I300-S124** SKU 10104799	**BFRM-M18-P31I300-S124** SKU 10104801

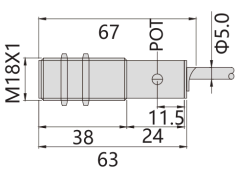
TECHNICAL DATA

Exterior structure	M18*1mm
Sensing distance	0.1...3m
Detection type	Retro-reflective
Switching frequency	500Hz
Operating voltage	10...30V DC
Light source	Infrared light 880nm
Response time	<2ms
Load current	≤200mA
Power-on delay	<300ms
Sensitivity adjustment	Single-turn potentiometer
Blind distance	<10cm
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

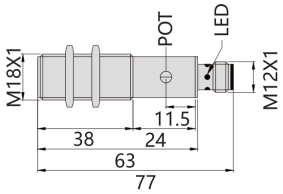
Ingress protection	IP66
Lens material	PMMA
Operation indicator	Yellow
Connection	①: 2m PVC Cable, 4*0.25mm² ②: 2m PVC Cable, 4*0.25mm² ③: M12Connector ④: M12Connector
Accessories	①: None ②: None ③: M12 4 pin cable with connector ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

M18X63 Cable ①



M18X77Connector ②



All dimensions in mm.