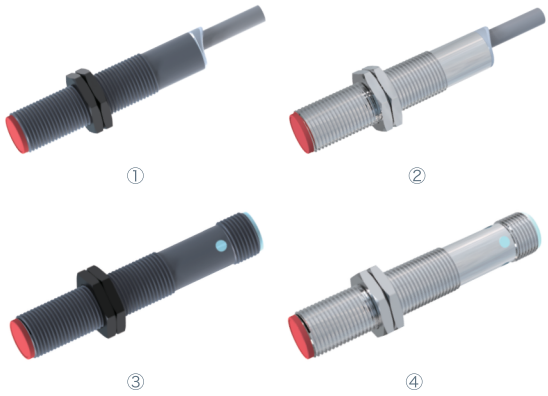
M12 Cylindrical Photoelectric Sensor

BFTP-M12-E1I520-PC2 series · Sensing Distance: 5.2m · Operating Voltage: 10...30V DC

IP66
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **5.2m**	OPERATING VOLTAGE **10...30V DC**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **M12*1mm**	RESPONSE TIME **≤2ms**

FEATURES

- Long detection distance
- Wide detection objects range
- Detect by light characteristics

MODEL CODES

Output Type	①	②	③	④
Emitter	BFTP-M12-E1I520-PC2 SKU 10104723	BFTM-M12-E1I520-PC2 SKU 10104728	BFTP-M12-E1I520-S124 SKU 10104733	BFTM-M12-E1I520-S124 SKU 10104738
NPN N.O	BFTP-M12-N11I520-PC2 SKU 10104724	BFTM-M12-N11I520-PC2 SKU 10104729	BFTP-M12-N11I520-S124 SKU 10104734	BFTM-M12-N11I520-S124 SKU 10104739
NPN N.C	BFTP-M12-N21I520-PC2 SKU 10104725	BFTM-M12-N21I520-PC2 SKU 10104730	BFTP-M12-N21I520-S124 SKU 10104735	BFTM-M12-N21I520-S124 SKU 10104740
PNP N.O	BFTP-M12-P11I520-PC2 SKU 10104726	BFTM-M12-P11I520-PC2 SKU 10104731	BFTP-M12-P11I520-S124 SKU 10104736	BFTM-M12-P11I520-S124 SKU 10104741
PNP N.C	BFTP-M12-P21I520-PC2 SKU 10104727	BFTM-M12-P21I520-PC2 SKU 10104732	BFTP-M12-P21I520-S124 SKU 10104737	BFTM-M12-P21I520-S124 SKU 10104742

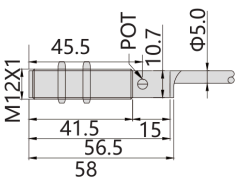
TECHNICAL DATA

Exterior structure	M12*1mm
Sensing distance	5.2m
Detection type	Through-beam
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%
Ingress protection	IP66

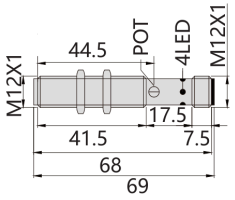
Housing material	①: PBT ②: Brass, nickel-plated ③: PBT ④: Brass, nickel-plated
Lens material	PMMA
Operation indicator	Yellow
Connection	①: 2m PVC Cable, 3*0.35mm² 2*0.5mm² ②: 2m PVC Cable, 3*0.35mm² 2*0.5mm² ③: M12 Connector ④: M12 Connector
Accessories	①: None ②: None ③: M12 4 pin cable with connector ④: M12 4 pin cable with connector

DIMENSIONAL DRAWINGS

M12X58 Cable ①



M12X68 Connector ②



All dimensions in mm.