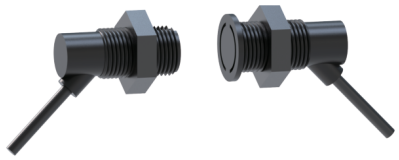
M12 Cylindrical Photoelectric Sensor

BFTP-M12-I300-PC2 series · Sensing Distance: 3m · Operating Voltage: 10...24V DC(±10%)

IP66
Ingress Protection



KEY SPECIFICATIONS

SENSING DISTANCE **3m**	OPERATING VOLTAGE **10...24V DC(±10%)**
SWITCHING FREQ. **500Hz**	AMBIENT TEMP. **-25...55°C**
HOUSING **M12*1mm**	RESPONSE TIME **≤2ms**

FEATURES

- Long detection distance
- Wide detection objects range
- Infrared light with high light immunity capability

MODEL CODES

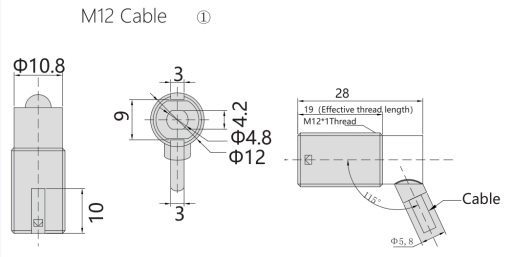
Output Type	Model Code
Emitter	**BFTP-M12-E1I300-PC2** SKU 10104743
NPN N.O	**BFTP-M12-N11I300-PC2** SKU 10104744
NPN N.C	**BFTP-M12-N21I300-PC2** SKU 10104745
PNP N.O	**BFTP-M12-P11I300-PC2** SKU 10104746
PNP N.C	**BFTP-M12-P21I300-PC2** SKU 10104747

TECHNICAL DATA

Exterior structure	M12*1mm
Sensing distance	3m
Detection type	Through-beam
Operating voltage	10...24V DC(±10%)
Switching frequency	500Hz
Light source	Infrared light 850nm
Response time	≤2ms
Load current	≤100mA
Current consumption	Emitter below 25mA, receiver below 15mA
Short-circuit protection	Yes
Operation indicator	Green: power indicator, Yellow: output
Output mode	NPN/PNP N.O/N.C

Withstand voltage	AC 1000V 1min(Between the power cord and the housing)
Ambient temperature	-25...55°C
Ambient humidity	35...85%
Pollution degree	3(Industrial environment)
Ingress protection	IP66(IEC)
Housing material	PC
Lens material	PMMA
Insulation resistance	DC 250V high resistance meter above 20MΩ
Connection	2m PVC Cable, 3*0.35mm² 2*0.5mm²
Accessories	None

DIMENSIONAL DRAWINGS



All dimensions in mm.