Metal cylindrical shape photoelectric sensors **PR12** series

Features

- ◆Through beam reflection working principle;
- ◆Excellent anti-interference performance
- ◆High detection accuracy

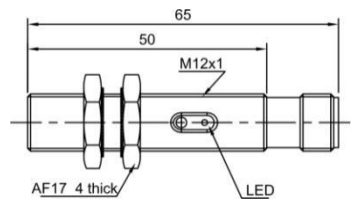
Part number

		Emitter	Receiver			Emitter	Receiver
NPN	NO	PR12-TM5D-E2	PR12-TM5DNO-E2	PNP	NO	PR12-TM5D-E2	PR12-TM5DPO-E2
NPN	NC	PR12-TM5D-E2	PR12-TM5DNC-E2	PNP	NC	PR12-TM5D-E2	PR12-TM5DPC-E2
NPN	NO+NC	PR12-TM5D-E2	PR12-TM5DNR-E2	PNP	NO+NC	PR12-TM5D-E2	PR12-TM5DPR-E2

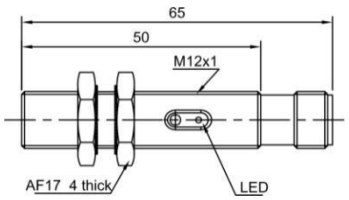
Technical specifications

Detection type	Through beam	Consumption current	≤25mA
Rated distance [Sn]	5m (non-adjustable)	Circuit protection	Short-circuit and reverse polarity
Standard target	＞φ10mm opaque object	Response time	＜8.2ms
Light source	Infrared LED (880nm)	Output indicator	Emitter: Green LED Receiver: Yellow LED
Dimensions	M12*65 mm	Ambient temperature	-15℃…+55℃
Output	NO/NC (depends on receiver)	Ambient humidity	35-85%RH (non-condensing)
Supply voltage	10…30 VDC	Voltage withstand	1000V/AC 50/60Hz 60s
Min target	……	Insulation resistance	≥50MΩ(500VDC)
Hysteresis range [%/Sr]	……	Vibration resistance	10…50Hz (0.5mm)
Repeat accuracy [R]	⩽5%	Degree of protection	IP67
Load current	⩽200mA (receiver)	Housing material	Nickel-copper alloy
Residual voltage	⩽2.5V (receiver)	Connection type	M12 Connector

Dimensions

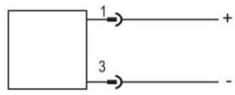


Emitter

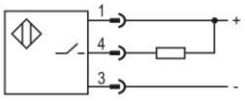


Receiver

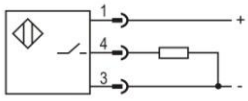
Wiring diagram



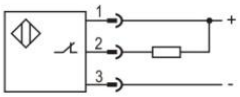
Emitter



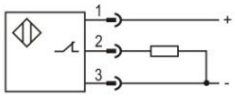
NPN NO



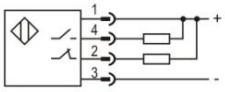
PNP NO



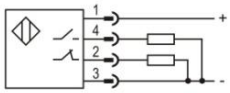
NPN NC



PNP NC



NPN NO+NC



PNP NO+NC

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