

Metal cylindrical shape photoelectric sensors PR30 series



Features

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



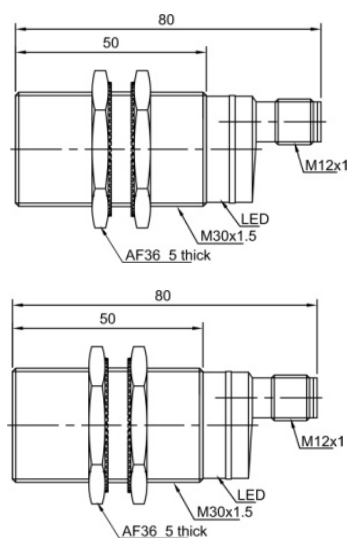
Part number

		Emitter	Receiver			Emitter	Receiver
NPN	NO	PR30-TM20D-E2	PR30-TM20DNO-E2	PNP	NO	PR30-TM20D-E2	PR30-TM20DPO-E2
NPN	NC	PR30-TM20D-E2	PR30-TM20DNC-E2	PNP	NC	PR30-TM20D-E2	PR30-TM20DPC-E2
NPN	NO+NC	PR30-TM20D-E2	PR30-TM20DNR-E2	PNP	NO+NC	PR30-TM20D-E2	PR30-TM20DPR-E2

Technical specifications

Detection type	Through beam	Consumption current	≤25mA
Rated distance [Sn]	20m (non-adjustable)	Circuit protection	Short-circuit and reverse polarity
Standard target	>φ15mm opaque object	Response time	<8.2ms
Light source	Infrared LED (880nm)	Output indicator	Emitter: Green LED Receiver: Yellow LED
Dimensions	M30*80mm	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

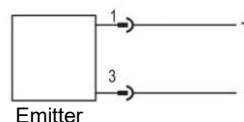
Dimensions



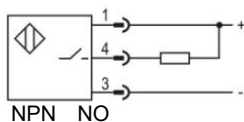
Emitter

Receiver

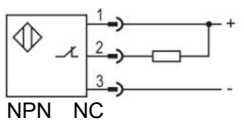
Wiring diagram



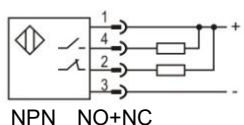
Emitter



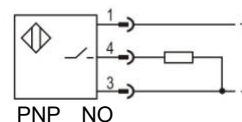
NPN NO



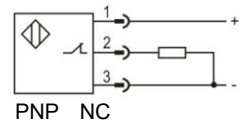
NPN NC



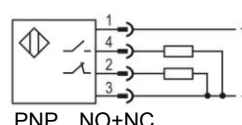
NPN NO+NC



PNP NO



PNP NC



PNP NO+NC