

Plastic cylindrical shape photoelectric sensors **PR12S** series



Features

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



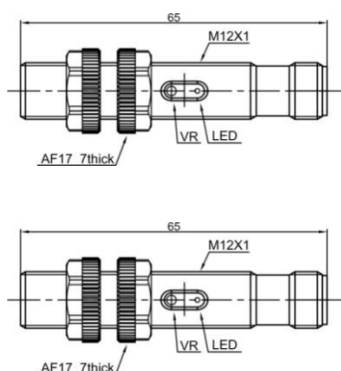
Part number

		Emitter		Receiver				Emitter		Receiver	
NPN	NO	PR12S-TM10D-E2		PR12S-TM10DNO-E2		PNP	NO	PR12S-TM10D-E2		PR12S-TM10DPO-E2	
NPN	NC	PR12S-TM10D-E2		PR12S-TM10DNC-E2		PNP	NC	PR12S-TM10D-E2		PR12S-TM10DPC-E2	
NPN	NO+NC	PR12S-TM10D-E2		PR12S-TM10DNR-E2		PNP	NO+NC	PR12S-TM10D-E2		PR12S-TM10DPR-E2	

Technical specifications

Detection type	Through beam	Consumption current	≤25mA
Rated distance [Sn]	10m (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*65mm	Ambient temperature	-15°C...+55°C
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	PBT
Residual voltage	≤2.5V (receiver)	Connection type	M12 Connector

Dimensions



Emitter

Receiver

Wiring diagram

