Metal cylindrical shape photoelectric sensors **PR18G** series



Features

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

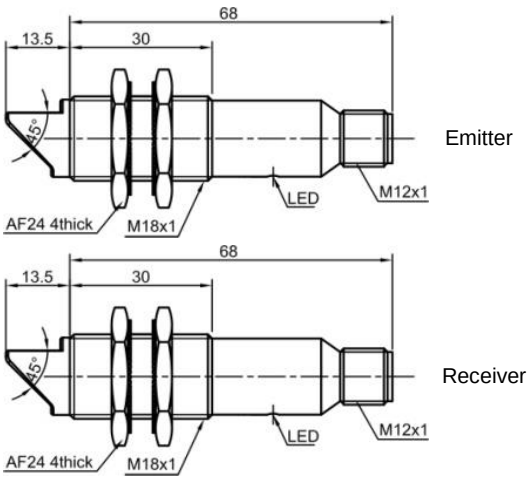
Part number

		Emitter	Receiver			Emitter	Receiver
NPN	NO	PR18G-TM20D-E2	PR18G-TM20DNO-E2	PNP	NO	PR18G-TM20D-E2	PR18G-TM20DPO-E2
NPN	NC	PR18G-TM20D-E2	PR18G-TM20DNC-E2	PNP	NC	PR18G-TM20D-E2	PR18G-TM20DPC-E2
NPN	NO+NC	PR18G-TM20D-E2	PR18G-TM20DNR-E2	PNP	NO+NC	PR18G-TM20D-E2	PR18G-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	M18*81.5mm	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	IP65
Load current	≤200mA (receiver)	Housing material	Nickel-copper alloy
Residual voltage	≤2.5V (receiver)	Connection type	M12 Connector

Dimensions



Wiring diagram

