

Plastic square shape photoelectric sensors PSF series



Features

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

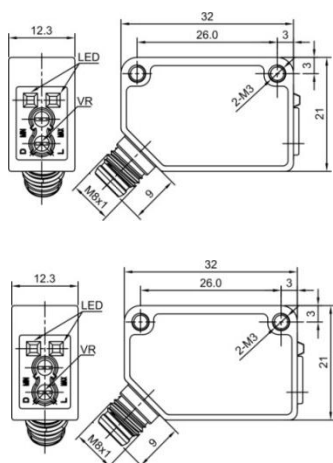
Part number

		Emitter	Receiver			Emitter	Receiver
NPN	NO	PSF-TM10D-E1	PSF-TM10DNO-E1	PNP	NO	PSF-TM10D-E1	PSF-TM10DPO-E1
NPN	NC	PSF-TM10D-E1	PSF-TM10DNC-E1	PNP	NC	PSF-TM10D-E1	PSF-TM10DPC-E1
NPN	NO/NC	PSF-TM10D-E1	PSF-TM10DNB-E1	PNP	NO/NC	PSF-TM10D-E1	PSF-TM10DPB-E1

Technical specifications

Detection type	Through beam	Consumption current	≤25mA
Rated distance [Sn]	10m (Receiver adjustable)	Circuit protection	Short-circuit and reverse polarity
Standard target	> φ10mm opaque object	Response time	< 1ms
Light source	Infrared LED (880nm)	Output indicator	Emitter: Green LED Receiver: Yellow LED
Dimensions	32 mm *21 mm *12.3 mm	Ambient temperature	-15°C...+55°C
Output	NO/NC (depends on part No.)	Ambient humidity	35-85%RH (non-condensing)
Supply voltage	12...24 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	≤100mA (receiver)	Housing material	PC/ABS
Residual voltage	≤2.5V (receiver)	Connection type	M8 Connector

Dimensions



Emitter

Receiver

Wiring diagram

