Plastic square shape photoelectric sensors **PSF** series



Features

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

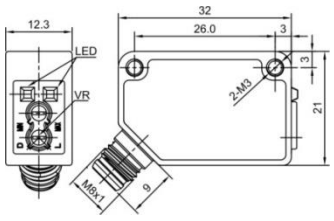
Part number

		Emitter	Receiver			Emitter	Receiver
NPN	NO	PSF-TM5D-E1	PSF-TM5DNO-E1	PNP	NO	PSF-TM5D-E1	PSF-TM5DPO-E1
NPN	NC	PSF-TM5D-E1	PSF-TM5DNC-E1	PNP	NC	PSF-TM5D-E1	PSF-TM5DPC-E1
NPN	NO/NC	PSF-TM5D-E1	PSF-TM5DNB-E1	PNP	NO/NC	PSF-TM5D-E1	PSF-TM5DPB-E1

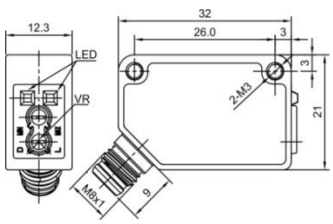
Technical specifications

Detection type	Through beam	Consumption current	≤25mA
Rated distance [Sn]	5m (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℃…+55℃
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

