

Plastic square shape photoelectric sensors **PTF** series



Features

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

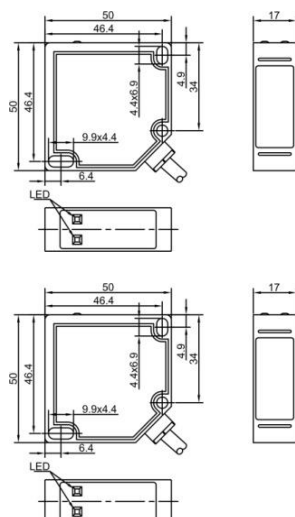
Part number

	Emitter	Receiver
Relay output	PTF-TM20S	PTF-TM20SK

Technical specifications

Detection type	Through beam	Consumption current	≤40mA
Rated distance [Sn]	20m (non-adjustable)	Circuit protection	
Standard target	>φ15mm opaque object	Response time	< 30ms
Light source	Infrared LED (880nm)	Output indicator	Emitter: Green LED Receiver: Yellow LED
Dimensions	50 mm *50 mm *17mm	Ambient temperature	-15°C...+55°C
Output	Relay output	Ambient humidity	35-85%RH (non-condensing)
Supply voltage	24...240 VAC/12...240VDC	Voltage withstand	2000V/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	≤3A (receiver)	Housing material	PC/ABS
Residual voltage		Connection type	2m PVC cable

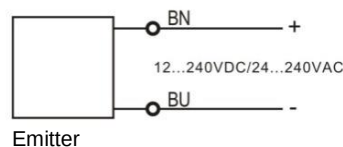
Dimensions



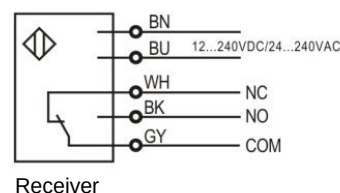
Emitter

Receiver

Wiring diagram



Emitter



Receiver