

Square Photoelectric Sensor

PTE



NEW!

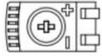
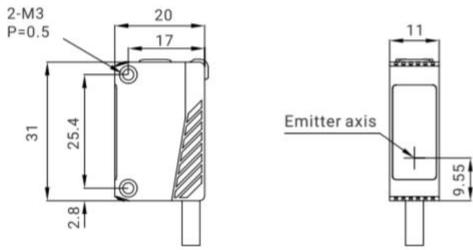
Economical Type



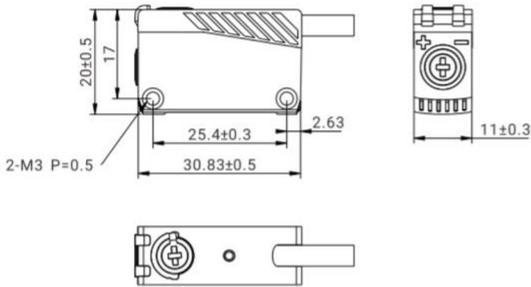
Basic Features	Working Principle	Optical detection principle							
	Sensing method	Diffuse			Retro-reflective		Through-beam		
	Type	Rectangular							
	Sensing distance	5~300mm	5~1000mm	1~150mm	5~1000mm	0.05~2m	0.05~3m	10m 30m	
	Spot size	-		Ø1cm/15cm	5.5x5.5cm/1m	Ø4cm/2m		4x4cm/1m -	
	Minimum sensing object diameter	-			18mm		10mm	7mm	
	Light source	Infrared LED(940nm)		Red LED(660nm)				Infrared LED(940nm)	
	Indicator	Running: green; Output: red							
	Sensitivity adjustment	6-turn potentiometer			1-turn potentiometer				
	Electrical Data	Operation model	Light.on/Dark.on switching						
Output model		NPN/PNP available by model							
Response time		≤2.5ms	≤1.6ms			≤3.4ms	≤3.3ms		
Response frequency		≤200Hz	≤300Hz			≤150Hz			
Repeatability		≤5%			-				
Hysteresis		≤20%			-				
Operating Voltage		10~30V ±10%							
No load current		≤20mA	≤25mA	≤20mA	≤25mA	≤15mA	≤20mA		
Voltage drop		< 1.5V							
Load current		≤100mA							
Insulation resistance		≥50MQ/500V DC							
Dielectric strength		1000V AC at 50/60Hz for 1 min							
Protection Circuit		Reverse Polarity Protection/Surge protection/Short-circuit Protection							
Environmental Conditions	Operating Temperature	-25°C~+55°C (No Freezing)							
	Storage Temperature	-30°C~+70°C (No Freezing)							
	Operating Humidity	35%~85% RH (No Condensation)							
	Storage Humidity	35%~95% RH (No Condensation)							
	Ambient illumination	Incandescent lamps≤1,000lux; Sunlights≤10,000lux							
	Vibration resistance	10~55Hz, 1.5mm double amplitude for 2hours each in X/Y/Z directions							
	Enclosure rating	IP67							
Mechanical Data	Tightening torque, max.	0.5N.m							
	Connection	2m/4-wire Cable		2m/3-wire Cable		2m/4-wire Cable			
	Dimensions (WxHxD)	20.0x31.0x11.0mm							
	Material	PBT							
	Weight	50g				93g			
Model	Accessories	Nuts, Bracket, Screwdriver			Nuts, Bracket, Screwdriver, Reflector		Nuts, Bracket, Screwdriver		
	NPN	PTE-DV30NR	PTE-DV100NR	PTE-DE15NR	PTE-DE100AN	PTE-RM2AN	PTE-RM3AN	PTE-TEM10NR	PTE-TVM30NR
PNP	PTE-DV30PR	PTE-DV100PR	PTE-DE15PR	PTE-DE100AP	PTE-RM2AP	PTE-RM3AP	PTE-TEM10PR	PTE-TVM30PR	

- Fiber Optic
- Fork
- Photoelectric**
- Inductive
- Capacitive
- Magnetic
- Contact
- Ultrasonic
- Curtains
- Selection Guide
- Cylindrical
- Rectangular**
- Ultra-slim
- BGS
- Time-of-Flight
- IP69K
- Reflector

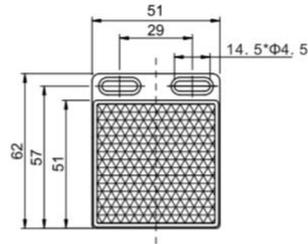
PTE-DV30/DV100/XE15



PTE-RM2/RM3

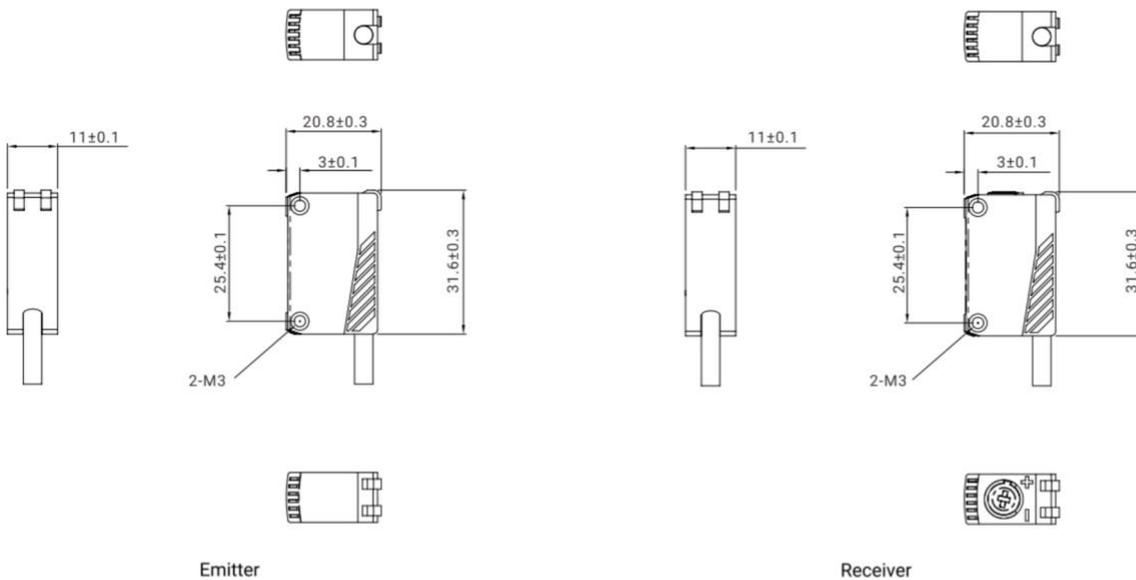


Standard TD-08



(PTE-RM2/RM3 Standard TD-08)

PTE-TEM10



Emitter

Receiver

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