



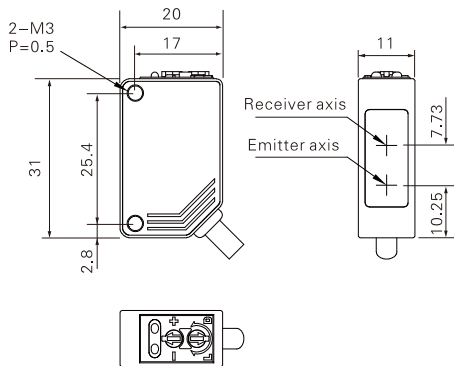
Economical Type

Appearance

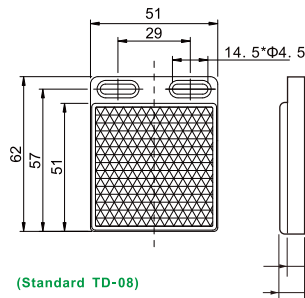
Sensing type	Diffuse reflection		Convergent reflective	Retro-reflection			
Sensing distance	10–300mm	5–1000mm	5–140mm	10–200mm	2m	3m	
Spot size	≈ ϕ 16mm / 300mm	≈ ϕ 50mm / 1000mm	≈ ϕ 9mm / 140mm	ϕ 10mm / 20cm	ϕ 50mm / 2m	ϕ 90mm / 3m	
Output type	NPN or PNP open collector, ≤100mA (30V DC)						
Switch type	L.on / D.on Switchable						
Indicator	Motion indicator: Red ; Operating indicator: Green						
Response time	<1ms			1ms	<1ms		
Sensitivity adjustment	Single-turn potentiometer						
Light source	Red light LED 623 nm (modulated)						
Operating voltage	10~30V DC						
Current consumption	≤25mA			≤20mA			
Ambient illuminance	Sunlight ≤10000 Lux; Incandescent Lamp ≤ 3000 Lux						
Ambient temperature	-25℃~+55℃, No freezing						
Ambient humidity	35%~85%RH, No condensation						
Anti-vibration	10 ~ 50Hz, 0.5mm amplitude, 2 hours each in X, Y, Z directions						
Circuit protection	Power reverse polarity protection, output reverse polarity protection, surge protection, short circuit protection						
Degree of protection	IP65						
Connection method	2M/3 cores cable, ϕ 4mm						
Material	PBT+Fiberglass (Housing) , PMMA (Lens)						
Accessories	Screwdriver			Screwdriver, reflective sticker	Screwdriver, reflector		
Model No.	NPN	PTE-D30N	PTE-D70N	PTE-X09N	PTE-R20N	PTE-R200N	PTE-R300N
	PNP	PTE-D30P	PTE-D70P	PTE-X09P	PTE-R20P	PTE-R200P	PTE-R300P

Dimensions

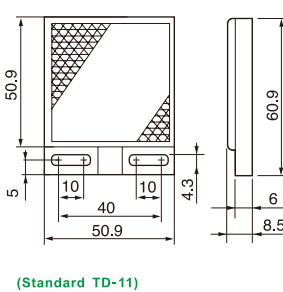
Unit: mm



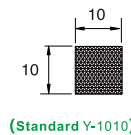
Reflector for PTE-R200



Reflector for PTE-R300

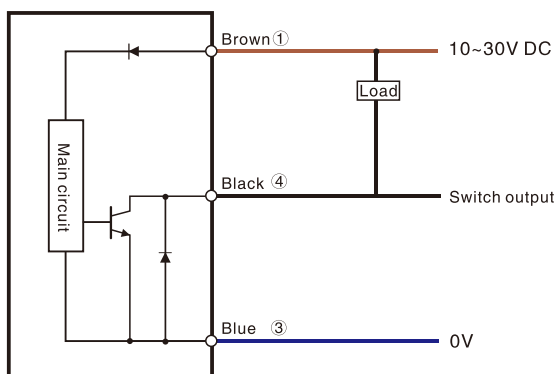


PTE-R20 Reflective Stickers

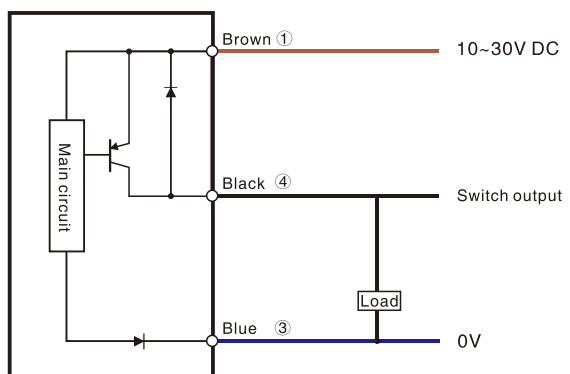


Circuit diagram

NPN Output



PNP Output



Square

PTE Series



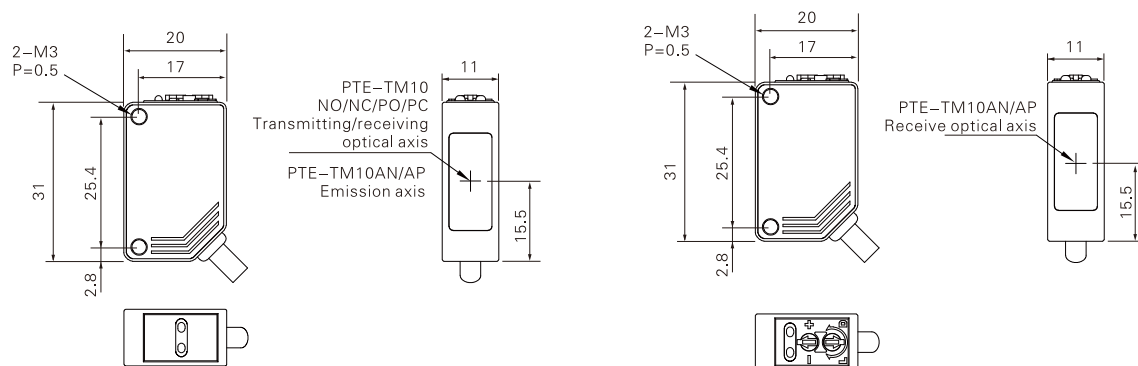
Economical Type

Appearance

Sensing type	Thru-beam Reflection			
Sensing distance	10m			
Detected object	φ > 12mm, opaque			
Output type	NPN / PNP open collector			
Switch Type	L.on /D.on selectable		L.on /D.on switchable	
Indicator	Status indicator: green,output indicator: red		Emitter: Power: green; Receiver:Operation: green, Motion: red	
Response time	33ms			
Sensitivity	Not adjustable		Single turn potentiometer	
Light source	IR LED 623nm (modulated)			
Operating voltage	10~30V DC			
Current consumption	Emitter ≤20mA; Receiver ≤20mA			
Ambient illuminance	Sunlight ≤ 10,000 Lux, Incandescent lamp ≤ 3,000 Lux			
Ambient temperature	-25℃~+55℃, No freezing			
Ambient humidity	35%~85%RH, No condensation			
Anti-vibration	10 to 50 Hz with 0.5mm amplitude for 2 hours each in X, Y, and Z directions			
Circuit protection	Power reverse polarity protection, short circuit protection			
Degree of protection	IP65			
Connection	2M / 3 cores cable 4mm diameter			
Material	Fiberglass (housing), PMMA(lens)			
Accessories	Screwdriver			
Model No.	NPN	PTE-TM10NO	PTE-TM10NC	PTE-TM10AN
	PNP	PTE-TM10PO	PTE-TM10PC	PTE-TM10AP

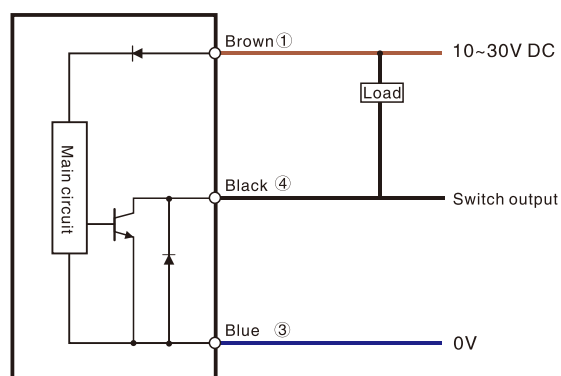
Dimensions

Unit: mm



Circuit diagram

NPN Output



PNP Output

