



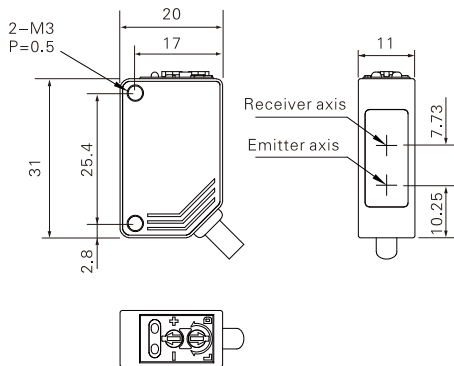
Economical Type

Appearance

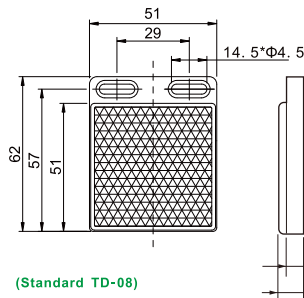
Sensing type	Diffuse reflection		Convergent reflective	Retro-reflection			
Sensing distance	10–300mm	5–1000mm	5–140mm	10–200mm	2m	3m	
Spot size	≈ ϕ 16mm / 300mm	≈ ϕ 50mm / 1000mm	≈ ϕ 9mm / 140mm	ϕ 10mm / 20cm	ϕ 50mm / 2m	ϕ 90mm / 3m	
Output type	NPN or PNP open collector, ≤100mA (30V DC)						
Switch 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

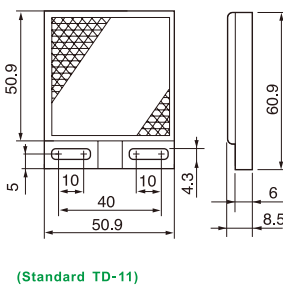


Reflector for PTE-R200



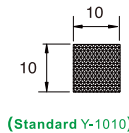
(Standard TD-08)

Reflector for PTE-R300



(Standard TD-11)

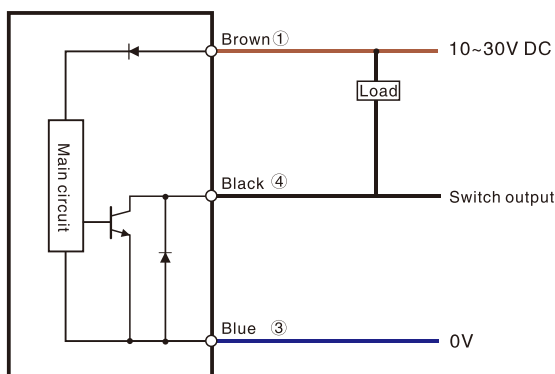
PTE-R20 Reflective Stickers



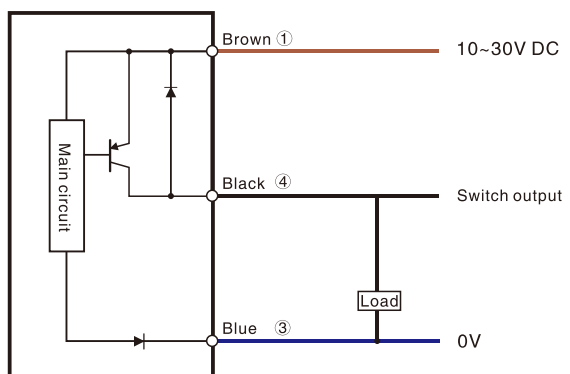
(Standard Y-1010)

Circuit diagram

NPN Output



PNP Output



Square

PTE Series



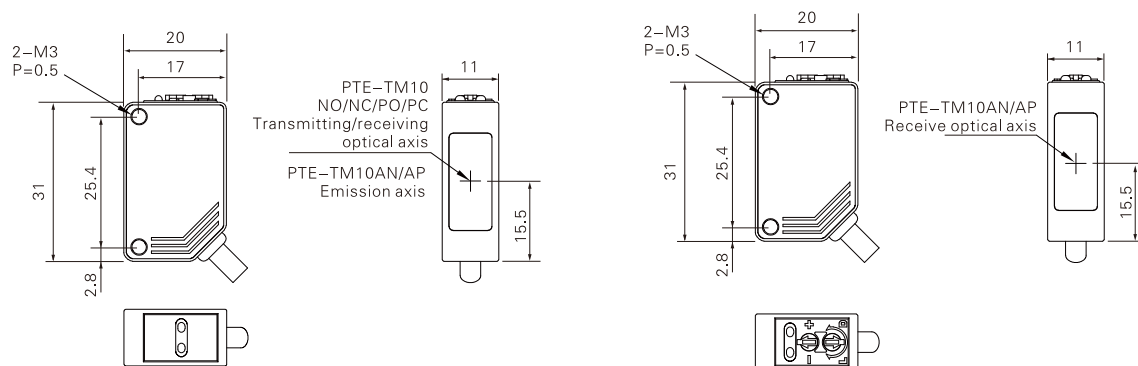
Economical Type

Appearance

Sensing type	Thru-beam Reflection			
Sensing distance	10m			
Detected object	φ >12mm, opaque			
Output type	NPN / PNP open collector			
Swthc 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

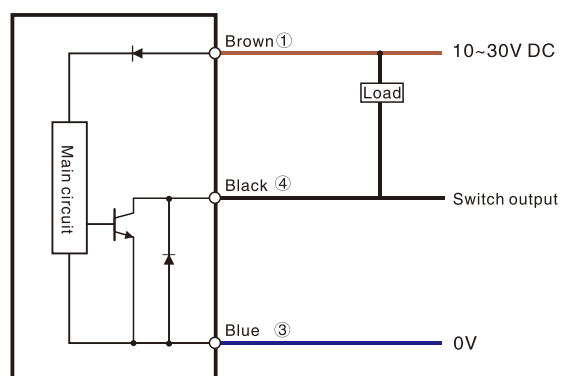
Dimensions

Unit: mm

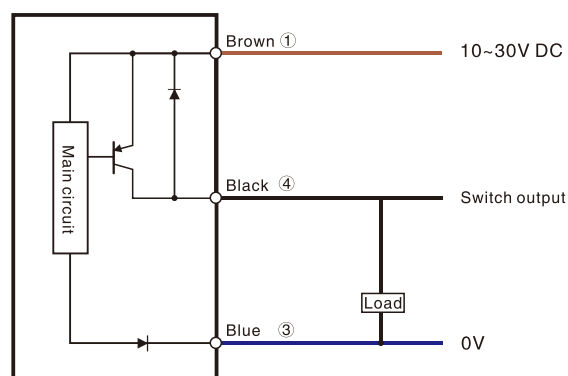


Circuit diagram

NPN Output



PNP Output



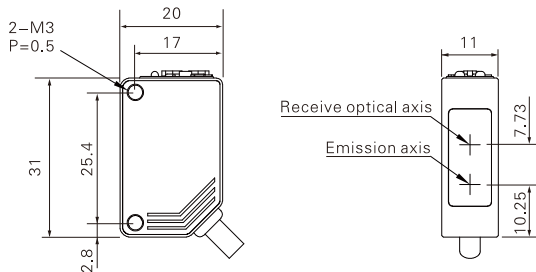


Wide Facula Type

Appearance			
Sensing type		Disffuse refection	
Sensing distance	5–200mm	10cm	20cm
Spot diameter	130*130mm/20cm	-	-
Output type	NPN / PNP open collector		
Switch type	L.on /D.on selectable		
Indicator	Operation indicator: Green, Motion indicator: Red		
Response time	1ms		
Sensitivity	Single–turn potentiometer		
Light source	Red LED 623nm (modulation)	Infrared LED 940nm (modulation)	
Operating voltage	10~30V DC		
Current consumption	<25mA	≤20mA	
Load current	<100mA	≤100mA	
Ambient illuminance	Sunlight≤10000Lux, Incandescent lamp≤3000Lux		
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, output reverse polarity protection, surge protection, short circuit protection		
Degree of protection	IP65		
Connection	2M 3 core cable, ϕ 4mm		
Material	PBT+Fiberglass (body), PMMA(lens)		
Accessories	Screwdriver		
Model No.	NPN	PTEW-D20N	PTVW-D10N
	PNP	PTEW-D20P	PTVW-D10P
			PTVW-D20N
			PTVW-D20P

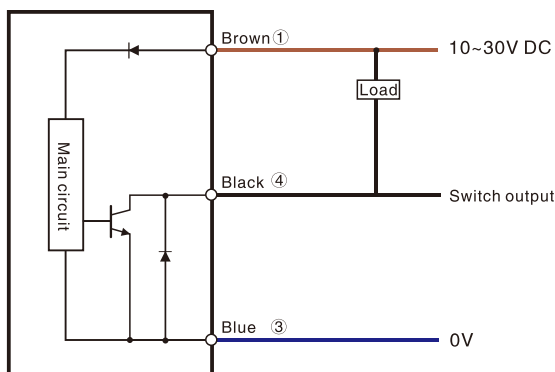
Dimensions

Unit: mm



Circuit diagram

NPN Output



PNP Output

