



Economical Type

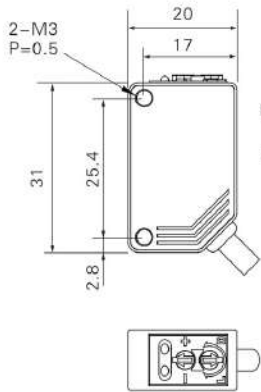
NEW!

Appearance

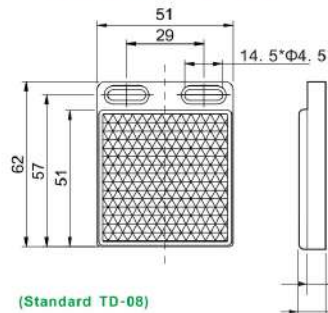
Sensing type	Diffuse reflection		Convergent reflective	Retro-reflection			
Sensing distance	30cm	100cm	14cm	20cm	200cm	300cm	
Spot size	≈ ϕ 16mm / 300mm	≈ ϕ 50mm / 1000mm	≈ ϕ 9mm / 140mm	ϕ 10mm / 20cm	ϕ 50mm / 2m	ϕ 90mm / 3m	
Output type	NPN or PNP open collector, ≤100mA (30V DC)						
Switch type	L.on / 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	≤20mA						
Ambient brightness	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						
Protective circuit	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	XPTE-D30N	XPTE-D70N	XPTE-X09N	XPTE-R20N	XPTE-R200N	XPTE-R300N
	PNP	XPTE-D30P	XPTE-D70P	XPTE-X09P	XPTE-R20P	XPTE-R200P	XPTE-R300P

Dimensions

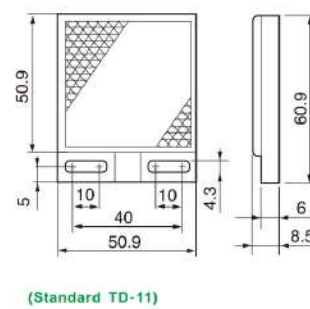
Unit: mm



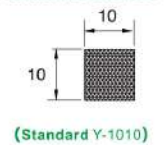
Reflector for PTE-R200



Reflector for PTE-R300



PTE-R20 Reflective Stickers



Guidance

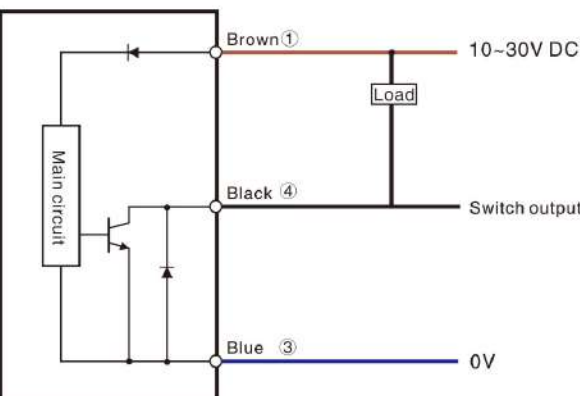
Photoelectric
Cylindrical
Square
Flat type
Thin type
BGS
Transparent detection
Color/Mark Detection
TOF reflective
IP69K high protection type
Anti-glare type

Reflectors

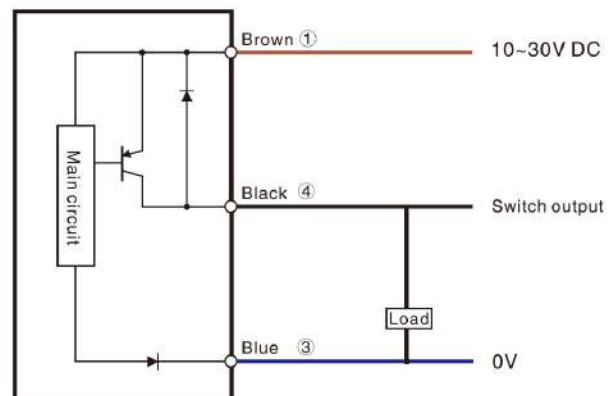
Reflectors

Circuit diagram

NPN Output



PNP Output



Square

XPTE Series



Economical Type

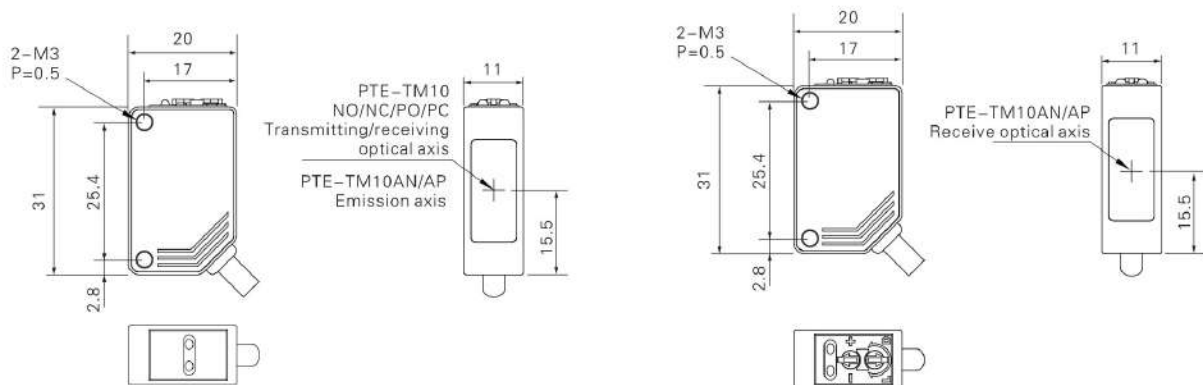
NEW!

Appearance

Sensing type	Thru-beam Reflection			
Sensing distance	10m (fixed)		10m	
Sensing object	φ >12mm, opaque			
Output type	NPN / PNP open collector			
Switc 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	150HZ			
Sensitivity	Not adjustable		Single turn potentiometer	
Light source	IR LED 623nm (modulated)			
Operating voltage	10~30V DC			
Current consumption	Emitter ≤16mA; Emitter ≤15mA			
Ambient light	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			
Protection circuits	Power reverse polarity protection, short circuit protection			
Degree of protection	IP65			
Connection	2M / 3 cores cable 4mm diameter			
Material	Fiberglass (shell), PMMA(Window)			
Accessories	Screwdriver			
Model No.	NPN	XPTE-TM10NO	XPTE-TM10NC	XPTE-TM10AN
	PNP	XPTE-TM10PO	XPTE-TM10PC	XPTE-TM10AP

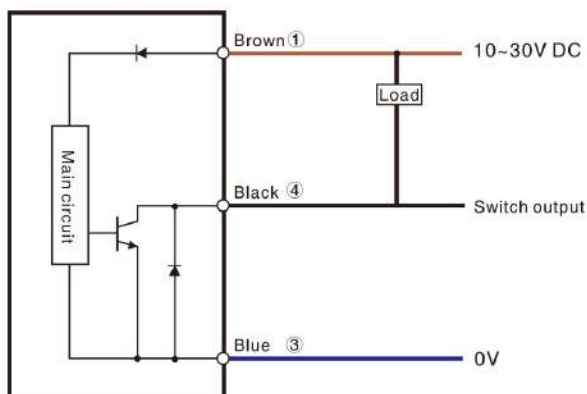
Dimensions

Unit: mm

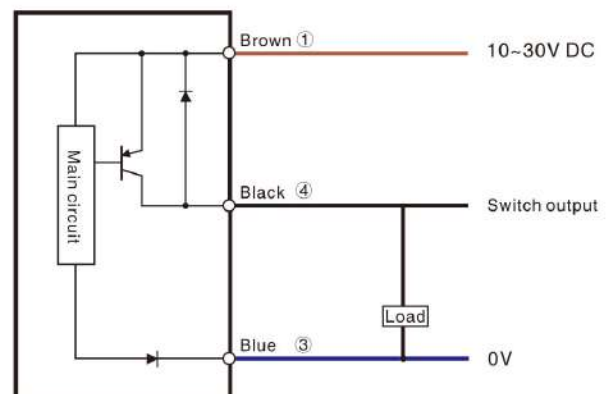


Circuit diagram

NPN Output



PNP Output





Wide Facula Type

NEW!

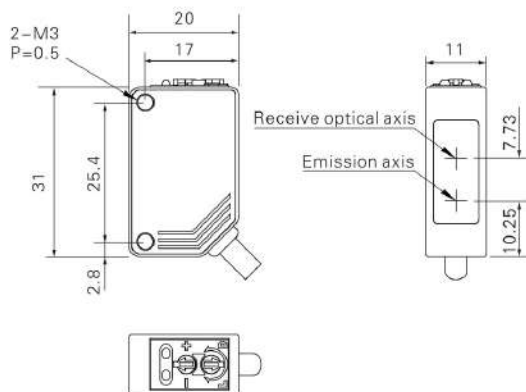


Appearance				
Sensing type	Disffuse refection			
Sensing distance	20cm	10cm	20cm	
Spot diameter	130*130mm/20cm	-	-	
Output type	NPN / PNP open collector			
Switch Type	L.on /D.on selectable			
Indicator	Operation indicator: Green, Motion indicator: Red			
Response time	1ms			
Sensitivity	Single-turn potentiometer			
Light source	Red LED 623nm (modulation)	Infrared LED 940nm (modulation)		
Operating voltage	10~30V DC			
Current consumption	≤20mA			
Ambient light	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			
Protection circuits	Power reverse polarity protection, output reverse polarity protection, surge protection, short circuit protection			
Degree of protection	IP65			
Connection	2M / 3 wire cable 4mm diameter			
Material	PBT+Fiberglass (body), PMMA(window)			
Accessories	Screwdriver			
Model No.	NPN	XPTEW-D20N	XPTVW-D10N	XPTVW-D20N
	PNP	XPTEW-D20P	XPTVW-D10P	XPTVW-D20P

Fiber Optic
Slot Sensors
Photoelectric
Laser
Proximity
Displacement
Magnetic
Contact
Area
Ultrasonic
Vision
Vibration
Temperature
Annexes

Dimensions

Unit: mm



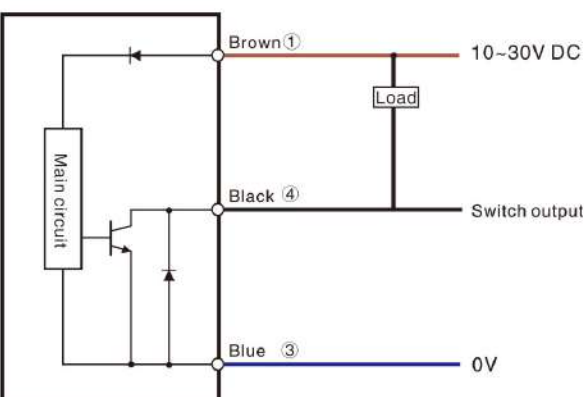
Guidance

Photoelectric
Cylindrical
Square
Flat type
Thin type
BGS
Transparent detection
Color/Mark Detection
TOF reflective
IP69K high protection type
Anti-glare type

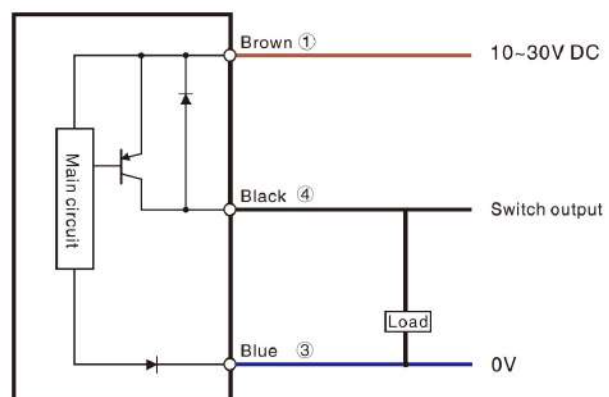
Circuit diagram

Reflectors
Reflectors

NPN Output



PNP Output



Anti-glare Type

XPTL Series



Anti-glare Type

NEW!

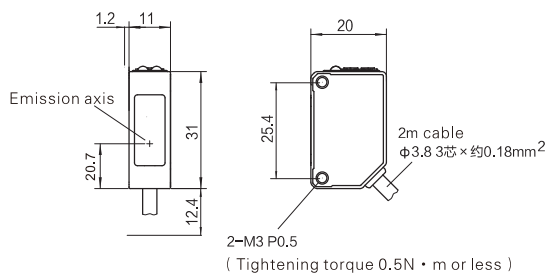
Appearance

Sensing type	Diffuse reflection-BGS	
Sensing distance	5~100mm	10~300mm
Sensing distance	20~100mm	50~300mm
Spot diameter	≈ Ø10mm/100mm	≈ Ø30mm/300mm
Should be bad	≤3%	≤5%
Output type	NPN / PNP open collector	
Switch Type	L.on / D.on selectable	
Indicator	Operating indicator: orange, Status indicator: red	
Response time	≤1ms	
Sensitivity	6-turn potentiometer	4-turn potentiometer
Light source	Red LED	
Operating voltage	10~30V DC	
Current consumption	≤30mA	
Ambient light	Sunlight ≤ 50,000 Lux, Incandescent lamp ≤ 5,000 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	
Degree of protection	IP67	
Connection	ABS (body), PMMA (window)	
Accessories	Screwdriver	
Model No.	NPN	XPTL-D10N
	PNP	XPTL-D10P
		XPTL-D30N
		XPTL-D30P

Dimensions

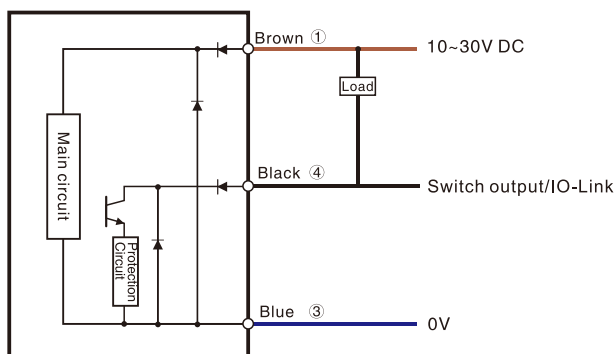
Unit: mm

Output indicator (orange)
Status indicator (green)
Sensitivity adjustment knob
Normally open/normally closed mode switch knob

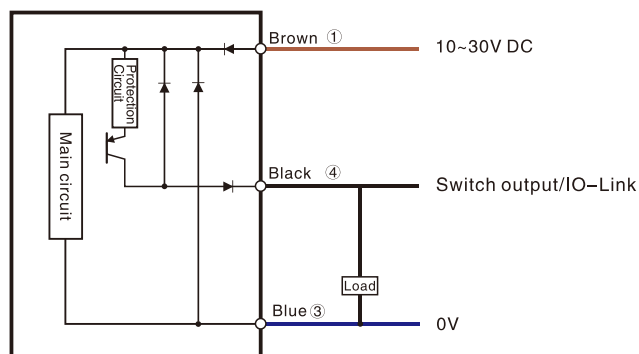


Circuit diagram

NPN Output



PNP Output





NEW!

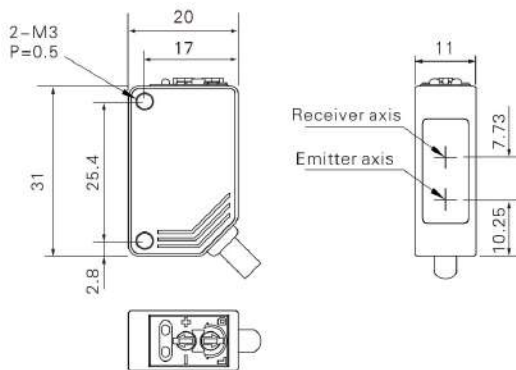


Appearance				
Sensing type	Diffuse reflection		Convergent reflective	
Sensing distance	30cm	100cm	14cm	
Output type	NPN/PNP Open-collector			
Switch type	Selectable L.on/D.on			
Response time	< 1ms			
Light source	Infrared light LED(940nm modulation)			
Operating voltage	10~30V DC			
No-load supply current	≤20mA			
Load current	≤100mA(24V DC)			
Ambient temperature	-20℃~+55℃, No freezing			
Ambient humidity	35%~85% RH, No condensation			
Protective circuit	Power reverse polarity,output reverse polarity,surge,short circuit			
Degree of protection	IP65			
Material	PBT+Fiberglass (Housing) , PMMA (Lens)			
Connection method	2M 3core cable			
Weight	≈ 50g			
Accessories	Screwdriver			
Model No.	NPN	XPTV-D30N HOT	XPTV-D70N	XPTV-X09N
	PNP	XPTV-D30P	XPTV-D70P	XPTV-X09P

Fiber Optic
Slot Sensors
Photoelectric
Laser
Proximity
Displacement
Magnetic
Contact
Area
Ultrasonic
Vision
Vibration
Temperature
Annexes

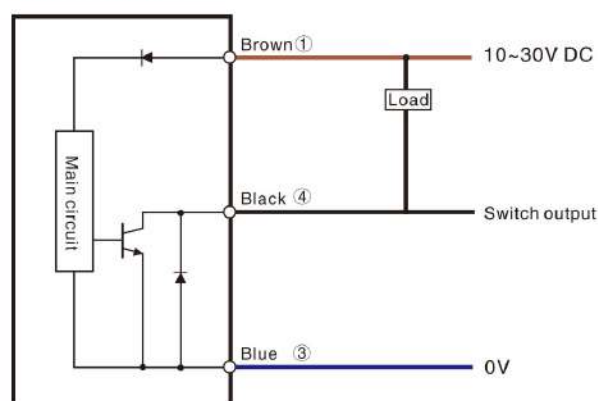
Dimensions

Unit: mm

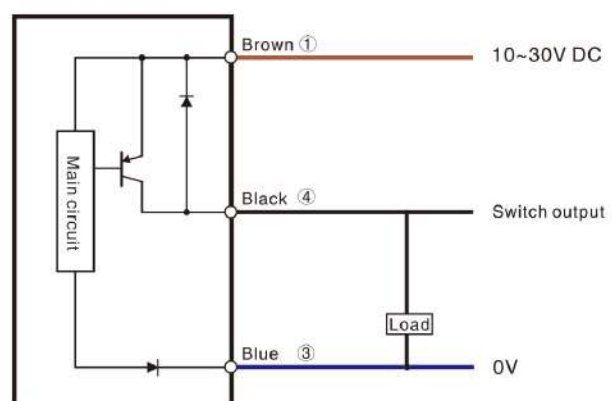


Circuit diagram

NPN Output



PNP Output



Guidance

Photoelectric
Cylindrical
Square
Flat type
Thin type
BGS
Transparent detection
Color/Mark Detection
TOF reflective
IP69K high protection type
Anti-glare type

Reflectors

Reflectors



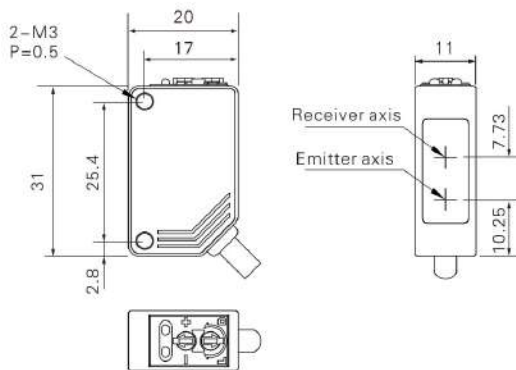
NEW!

Appearance			
Sensing type	Diffuse reflection		Convergent reflective
Sensing distance	30cm	100cm	14cm
Output type	NPN/PNP Open-collector		
Switch type	Selectable L.on/D.on		
Response time	< 1ms		
Light source	Infrared light LED(940nm modulation)		
Operating voltage	10~30V DC		
No-load supply current	≤20mA		
Load current	≤100mA(24V DC)		
Ambient temperature	-20℃~+55℃, No freezing		
Ambient humidity	35%~85% RH, No condensation		
Protective circuit	Power reverse polarity,output reverse polarity,surge,short circuit		
Degree of protection	IP65		
Material	PBT+Fiberglass (Housing), PMMA (Lens)		
Connection method	2M 3core cable		
Weight	≈50g		
Accessories	Screwdriver		
Model No.	NPN	XPTV-D30N HOT	XPTV-D70N
	PNP	XPTV-D30P	XPTV-D70P
			XPTV-X09N
			XPTV-X09P

Fiber Optic
Slot Sensors
Photoelectric
Laser
Proximity
Displacement
Magnetic
Contact
Area
Ultrasonic
Vision
Vibration
Temperature
Annexes

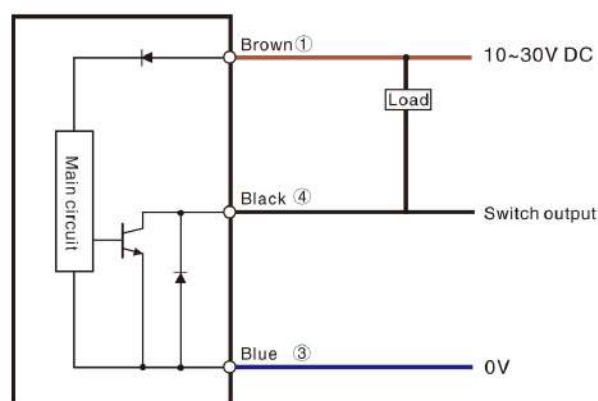
Dimensions

Unit: mm

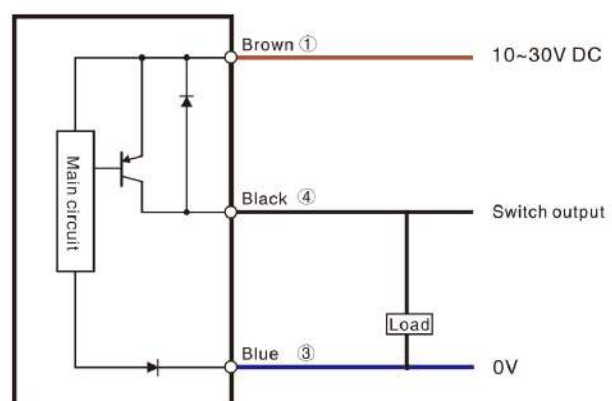


Circuit diagram

NPN Output



PNP Output



Guidance

Photoelectric
Cylindrical
Square
Flat type
Thin type
BGS
Transparent detection
Color/Mark Detection
TOF reflective
IP69K high protection type
Anti-glare type

Reflectors

Reflectors

Square

XPTV Series



NEW!

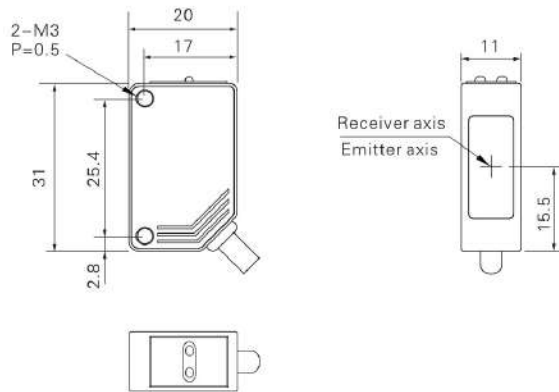
Appearance

Sensing type	Thru-beam			
Sensing distance	20m(fixed)		20m	5m
Output type	NPN/PNP Open-collector			
Switch type	Selectable L.on/D.on, Model optional		Selectable L.on/D.on	
Response time	< 5ms			
Light source	Infrared light LED(940nm modulation)			
Operating voltage	10~30V DC			
No-load supply current	Transmitter end: ≤20mA; Receiving end: ≤20mA			
Load current	≤100mA(24V DC)			
Ambient temperature	-20℃~+55℃, No freezing			
Ambient humidity	35%~85% RH, No condensation			
Protective circuit	Power reverse polarity,output reverse polarity,surge,short circuit			
Degree of protection	IP65			
Material	PBT+Fiberglass (Housing) , PMMA (Lens)			
Connection method	2M 3core cable			
Weight	≈50g			
Accessories	Screwdriver			
Model No.	NPN	XPTV-TM20NO	XPTV-TM20NC	XPTV-TM20AN
	PNP	XPTV-TM20PO	XPTV-TM20PC	XPTV-TM20AP
				XPTV-T500N
				XPTV-T500P

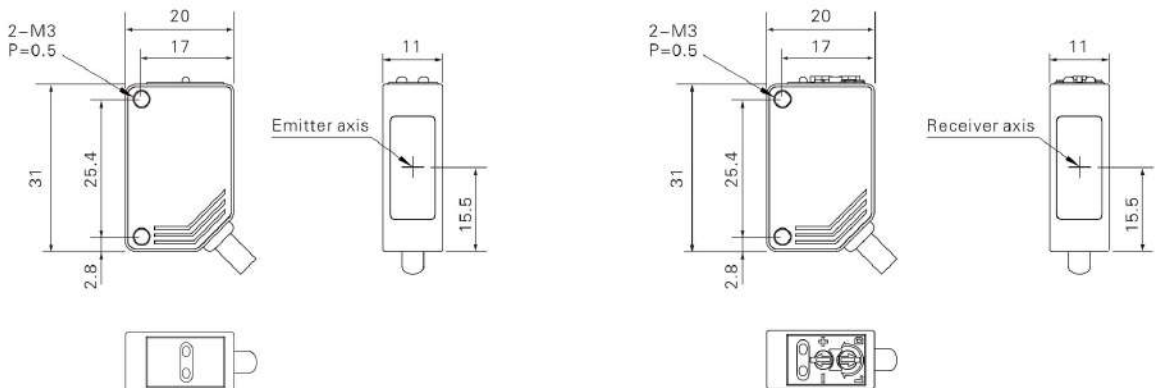
Dimensions

Unit: mm

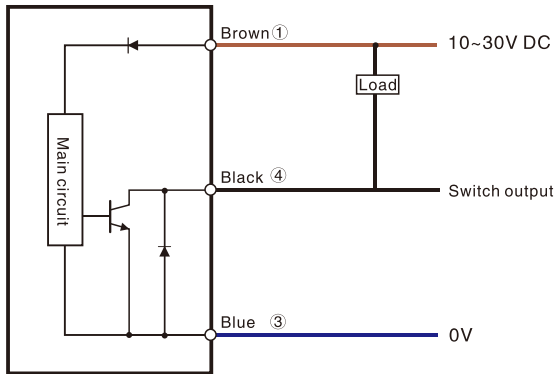
XPTV-TM20NO/PO/NC/PC



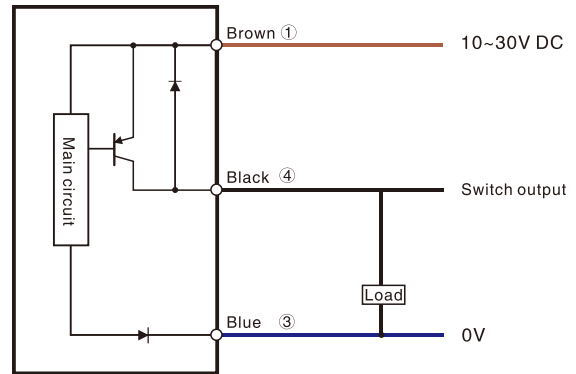
PTV-TM20AN/AP, PTV-T500N/P



NPN Output



PNP Output



- Fiber Optic
- Slot Sensors
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic
- Contact
- Area
- Ultrasonic
- Vision
- Vibration
- Temperature
- Annexes

Guidance

Photoelectric

Cylindrical

Square

Flat type

Thin type

BGS

Transparent detection

Color/Mark Detection

TOF reflective

IP69K high protection type

Anti-glare type

Reflectors

Reflectors

Square

XPTZSeries

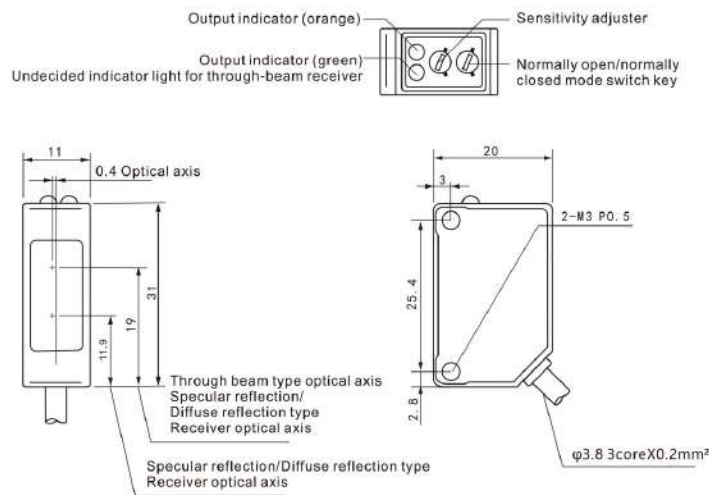


Appearance

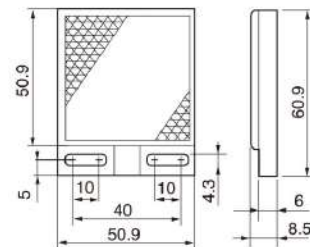
Sensing type	Disffuse refection	Thru-beam	Retro-reflection
Sensing distance	100cm	2000cm	400cm
Beam size	φ 75mm / 1000mm	φ 800mm / 20m	φ 200mm / 4m
Output type	NPN/PNP Open-collector, ≤100mA		
Switch type	Selectable L.on/D.on		
Indicator	Motion indicator:Green;Output indicator:Yellow		
Response time	0.5ms		
Sensivity adjustment	Single turn potentiometer		
Light source	Red LED 660nm		
Operating voltage	10~30V DC ± 10%		
No-load supply current	≤25mA	Emitter ≤20mA, Receiver ≤15mA	≤20mA
Ambient luminance	Sunlight ≤1000Lux, Incandescent lamp ≤3000Lux		
Ambient temperature	-25℃~55℃ no freezing		
Ambient humidity	35~85% RH, No coagulating		
Shock resistance	100G (1000m/s ²)		
Degree of protection	IP67		
Connection method	2M/3 core cable		
Material	ABS contain optic fiber(body);PMMA(lens)		
Accessories	None		Reflector
Model No.	NPN	XPTZ-D70N HOT	XPTZ-TM20N
	PNP	XPTZ-D70P	XPTZ-TM20P
			XPTZ-400N
			XPTZ-R400P

Dimensions

Unit: mm



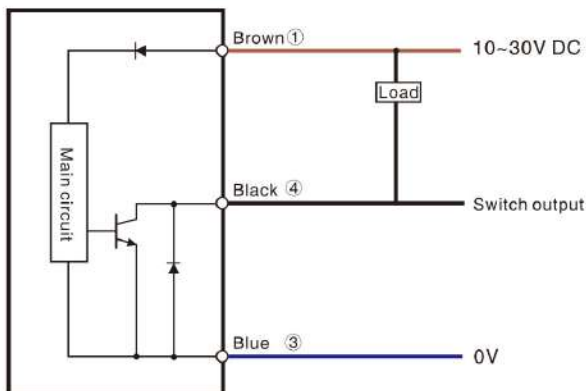
PTZ-R400 Reflector



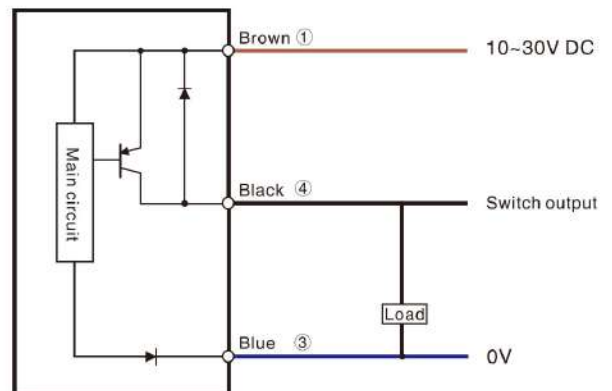
(Standard TD-11)

Circuit diagram

NPN Output



PNP Output





IO-Link
NEW!

Appearance

Sensing type		Diffuse reflection	Thru-beam reflection	Retro-reflection
Sensing distance		0~1m(white paper200X200mm)	25m	0.01~4m(with reflector)
Spot diameter		φ 75mm / 1m	φ 1800mm / 25m	φ 280mm / 4m
Output type		NPN/PNP Open-collector, ≤100mA(30VDC)		
Switch type		L.on/D.on selectable		
Indicator		Input indicator: orange, Status indicator: green		
Response time		≤500us		
Sensitivity		Single turn adjuster		
Light source		Red light LED		
Operating voltage		10~30V DC ± 10 %		
Current consumption		≤20mA	Emitter≤14mA, Receiver≤20mA	≤20mA
Hysteresis		≤20%	-	
Function		IO-LINK		
Ambient light		Sunlight≤50000Lux, Incandescent lamp≤5000Lux		
Ambient temperature		-25℃~-+55℃, no freezing		
Ambient humidity		35%~85% RH, No condensation		
Degree of protection		IP67		
Connection		3 wire 2m cable, 2 wire 2m cable for thru-beam models		
Material		ABS (housing) +PMMA (window)		
Accessories		-		
Model No.	NPN	XPTZ-D70N-C	XPTZ-TM25N-C	XPTZ-R400N-C
	PNP	XPTZ-D70P-C	XPTZ-TM25P-C	XPTZ-R400P-C

Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

Vision

Vibration

Temperature

Annexes

Guidance

单位: mm

Photoelectric

Cylindrical

Square

Flat type

Thin type

BGS

Transparent detection

Color/Mark Detection

TOF reflective

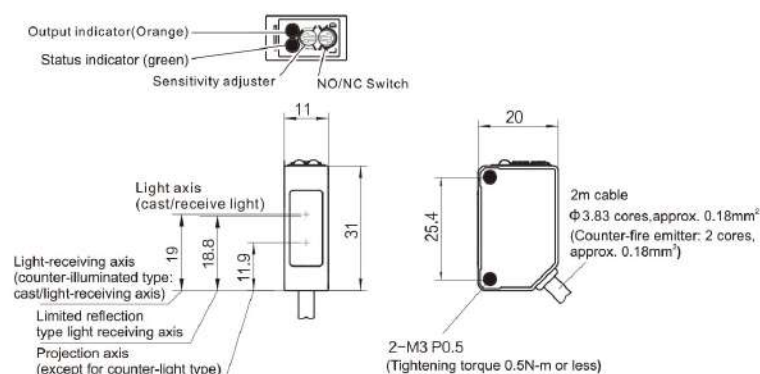
IP69K high protection type

Anti-glare type

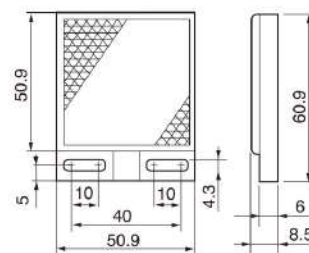
Reflectors

Reflectors

尺寸规格



Reflector for PTZ-R400-C

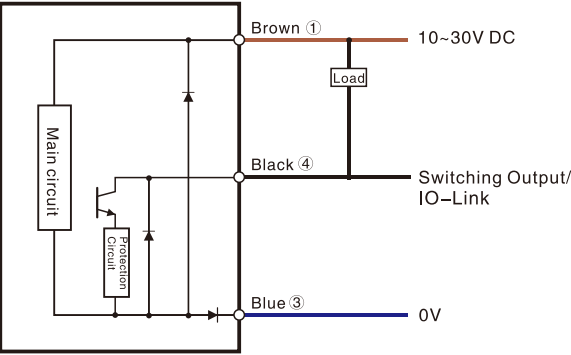


(Optional TD-11)

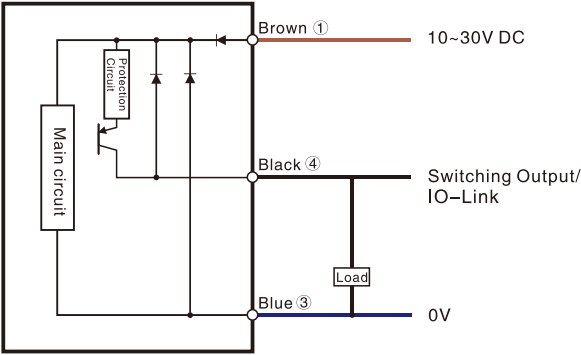
Square

Circuit diagram

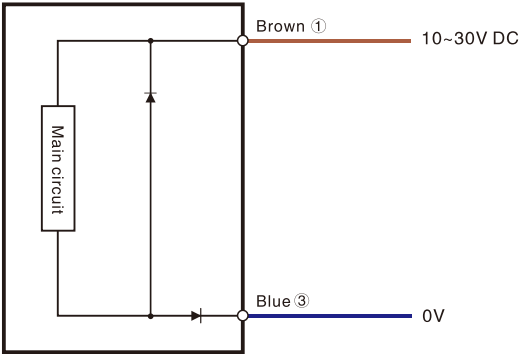
NPN Output



PNP Output



Opposed-fire Launcher



Guidance

Photoelectric

Cylindrical

Square

Flat type

Thin type

BGS

Transparent detection

Color/Mark Detection

TOF reflective

IP69K high protection type

Anti-glare type

Reflectors

Reflectors



Appearance		
Sensing type	Diffuse reflection	Thru-beam
Sensing distance	5cm, White board 100*100mm (> 5cm)	50cm
Output type	NPN/PNP Open-collector	
Switch type	L.on	D.on
Response time	≤1 ms	
Light source	Infrared light LED (940nm)	
Operating voltage	12~24V DC ± 10%	
Current consumption	≤20mA	≤30mA
Load current	≤100mA (24V DC)	
Protective circuit	Reverse polarity, short circuit	
Ambient temperature	-10°C~+45°C, No freezing	
Ambient humidity	35%~85% RH, No condensation	
Storage temperature	-10°C~+55°C, No freezing	
Storage humidity	35%~95% RH, No condensation	
Voltage withstandability	1000 V/AC 50/60Hz 1min	
Insulation resistance	≥20M Ω/500V DC	
Degree of protection	IP64	
Material	ABS	
Connection method	φ 2.4*2M 3core cable	(Receiver) φ 2.4*2M 3core cable/ (Emitter) φ 2.4*2M 3core cable
Weight	≈20g	≈40g
Model No.	NPN	XPTN-D05N
	PNP	XPTN-D05P
		XPTN-T50N
		XPTN-T50P

Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

Vision

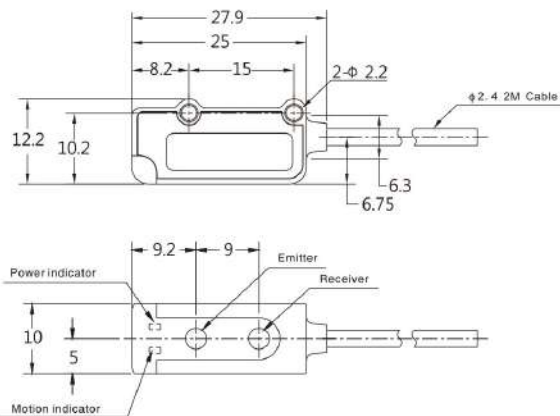
Vibration

Temperature

Annexes

Dimensions

Unit: mm



Guidance

Photoelectric

Cylindrical

Square

Flat type

Thin type

BGS

Transparent detection

Color/Mark Detection

TOF reflective

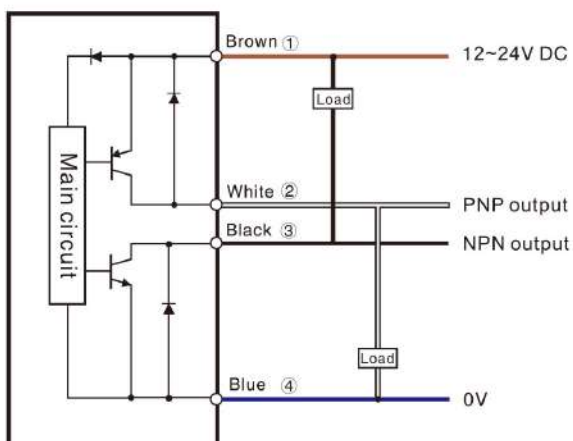
IP69K high protection type

Anti-glare type


Reflectors

Reflectors

Circuit diagram

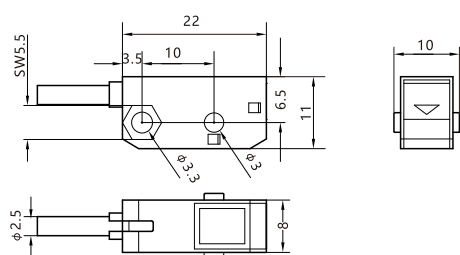




Appearance			
Sensing type	Thru-beam		
Sensing distance	80cm (fixed)		150cm (fixed)
Standard test object	Opaque objects above ϕ 6mm		
Output type	NPN/PNP Open-collector		
Switch type	Selectable L.on/D.on, Model optional		
Response frequency	150Hz		
Indicator	Transmitter: Power indicator: green; Receiver: Action indicator: yellow		
Light source	Infrared LED 850nm (Modulated)		
Operating voltage	12~24V DC		
Residual voltage	2V or less (when the current is 50mA)		
Current consumption	The transmitting end < 15mA,Receiving end < 15mA		
Load current	< 50mA		
Protective circuit	Reverse polarity , short circuit		
Ambient brightness	Sunlight ≦10000Lux, Incandescent lamp ≦3000Lux		
Ambient temperature	-20℃~+50℃, No freezing		
Voltage drop	35~90 % RH,Storage : 35~90 % RH		
Storage temperature	-30℃~+70℃,No freezing		
Voltage withstandability	≧20M Ω/500V DC		
Pressure strength	AC1000V(50/60Hz)1minute		
Shock resistance	10~55Hz reciprocating amplitude 1.5mm, X, Y, Z directions 2 hours		
Impact resistant	500m/s² XYZ three directions		
Degree of protection	IP 64		
Housing Material	PC/ABS		
Connection method	2M 3core cable		
Model No.	NPN D.on	XPTJ-T80NO-I	XPTJ-T150NO-I
	NPN L.on	XPTJ-T80NC-I	XPTJ-T150NC-I
	PNP D.on	XPTJ-T80PO-I	XPTJ-T150PO-I
	PNP L.on	XPTJ-T80PC-I	XPTJ-T150PC-I

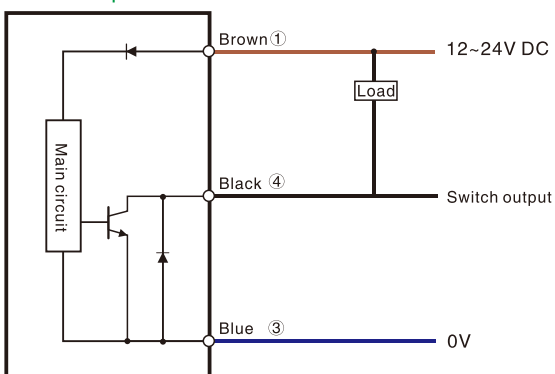
Dimensions

Unit: mm



Circuit diagram

NPN Output



PNP Output

