

PZ-M51P

Square Transmissive Cable Type, PNP

*Please note that accessories depicted in the image are for illustrative purposes only and may not be included with the product.

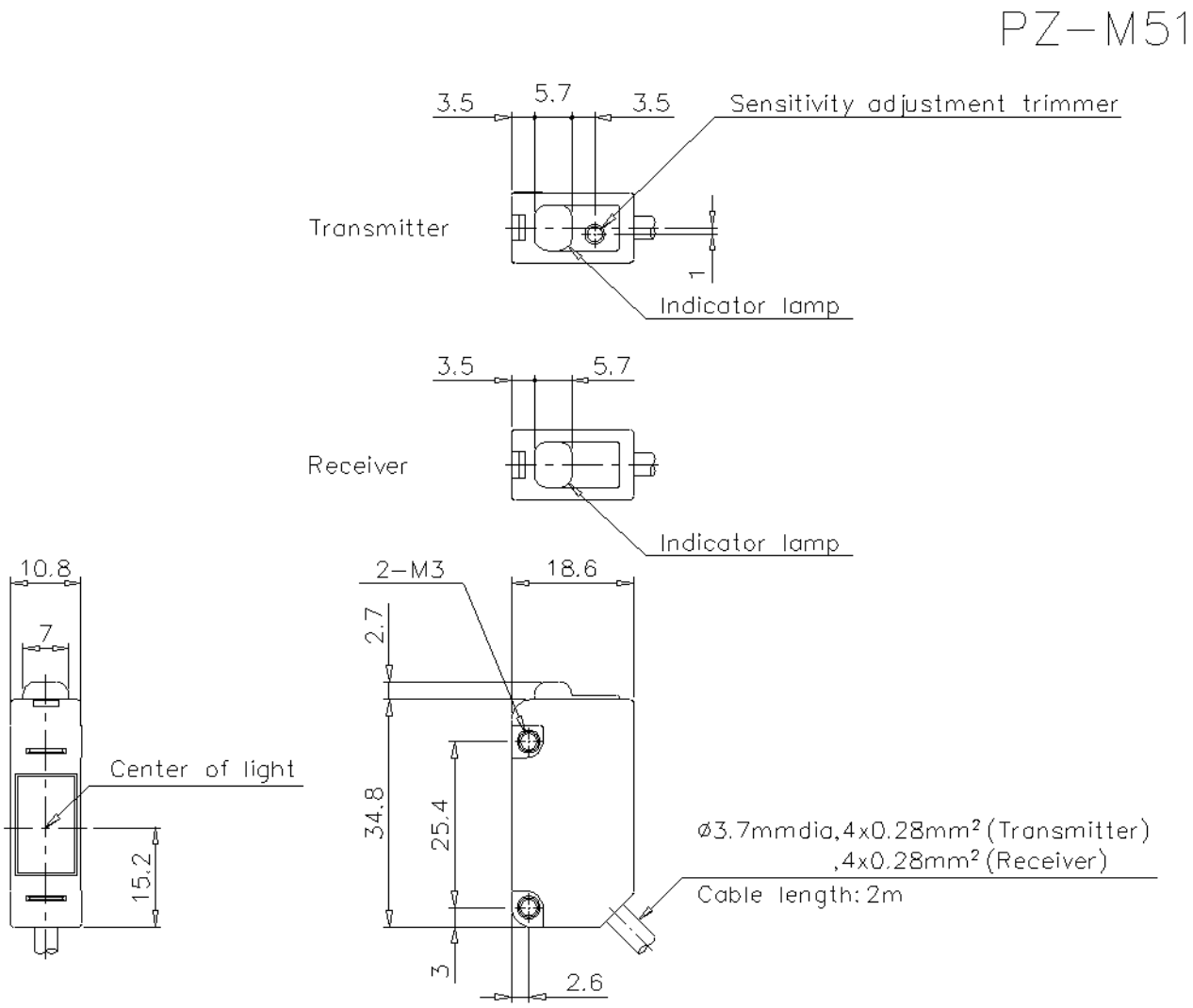
Specifications

Model		PZ-M51P
Type		Thrubeam
Output		PNP
Detecting distance		10 m 32.8'*1
Setting distance		—
Light source.		Red LED
Sensitivity adjustment		1-turn trimmer (230°)
Response time		1.5 ms max.
Operation mode		LIGHT-ON/DARK-ON (switch-selectable)
Indicator lamp		Output and power: Orange LED, Stable operation: Green LED*2
Control output		100 mA (24 V) max., Residual voltage: 1 V max.
Digital monitor		—
Protection circuit		Reversed polarity, overcurrent protection, surge absorber
Rating	Power voltage	12 to 24 VDC ±10 %, Ripple (P-P) 10 % or less
	Power consumption	T: 24 mA max. , R: 27 mA max.
Environmental resistance	Enclosure rating	IP67
	Ambient light	Incandescent lamp: 5,000 lux max., Sunlight: 20,000 lux max.
	Ambient temperature	-20 to +55 °C -4 to 131 °F (No freezing)
	Relative humidity	35 to 85 % RH (No condensation)
	Vibration resistance	10 to 55 Hz, Double amplitude 1.5 mm 0.06", 2 hours in each of the X, Y, and Z directions
	Shock resistance	1,000 m/s², 6 times in each of the X, Y, and Z directions
Case material		Glass-fiber reinforced plastic
Accessories		—
Weight		T: Approx. 50 g, R: Approx. 50 g (including 2-m 6.6' cable)

*1 The detecting distance is obtained with the maximum sensitivity.
*2 The transmitter of the PZ-M51 features a power indicator only.

Dimensions

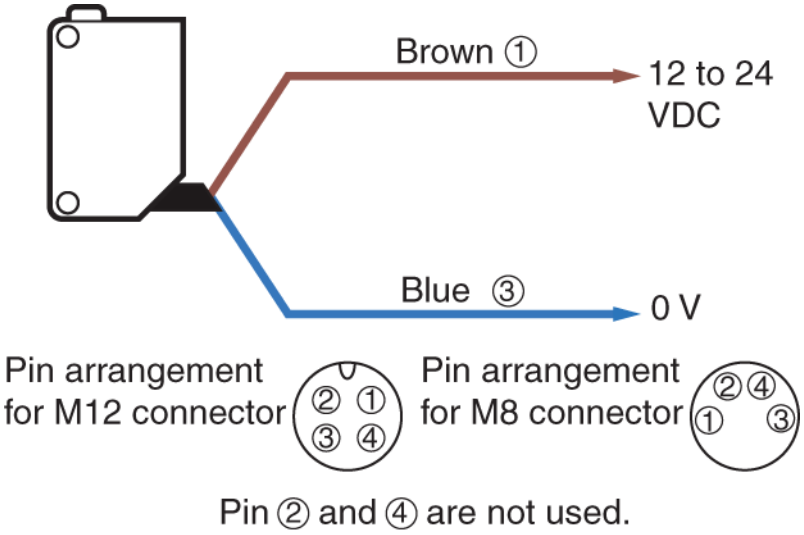
* Download CAD file or product manual for larger image/text and more detail.



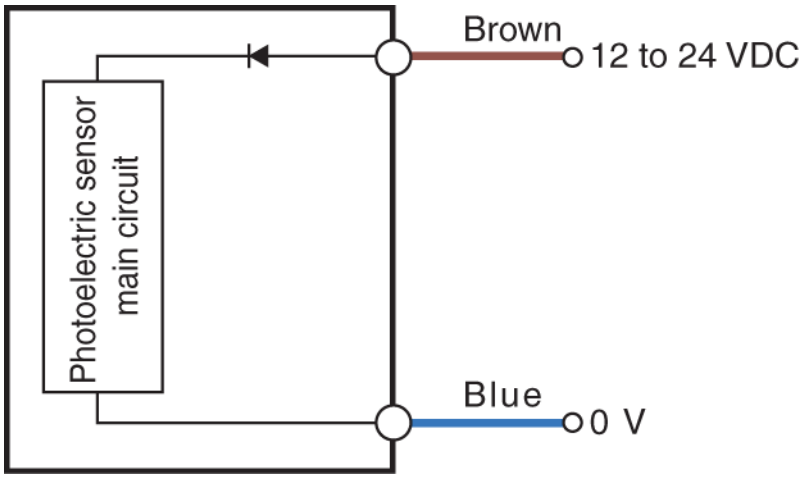
I/O Circuit Connection diagram

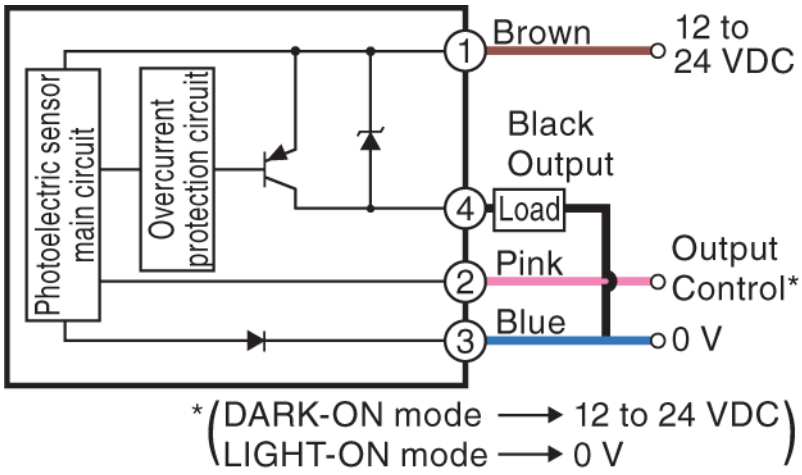
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(Transmitter)



(Transmitter)




Photoelectric sensor main circuit
Overcurrent protection circuit
1
Brown
12 to 24 VDC
Black
Output
4
Load
2
Pink
Output Control*
3
Blue
0 V
*(DARK-ON mode → 12 to 24 VDC
LIGHT-ON mode → 0 V)