

PZ-M51

Square Transmissive Cable Type, NPN

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

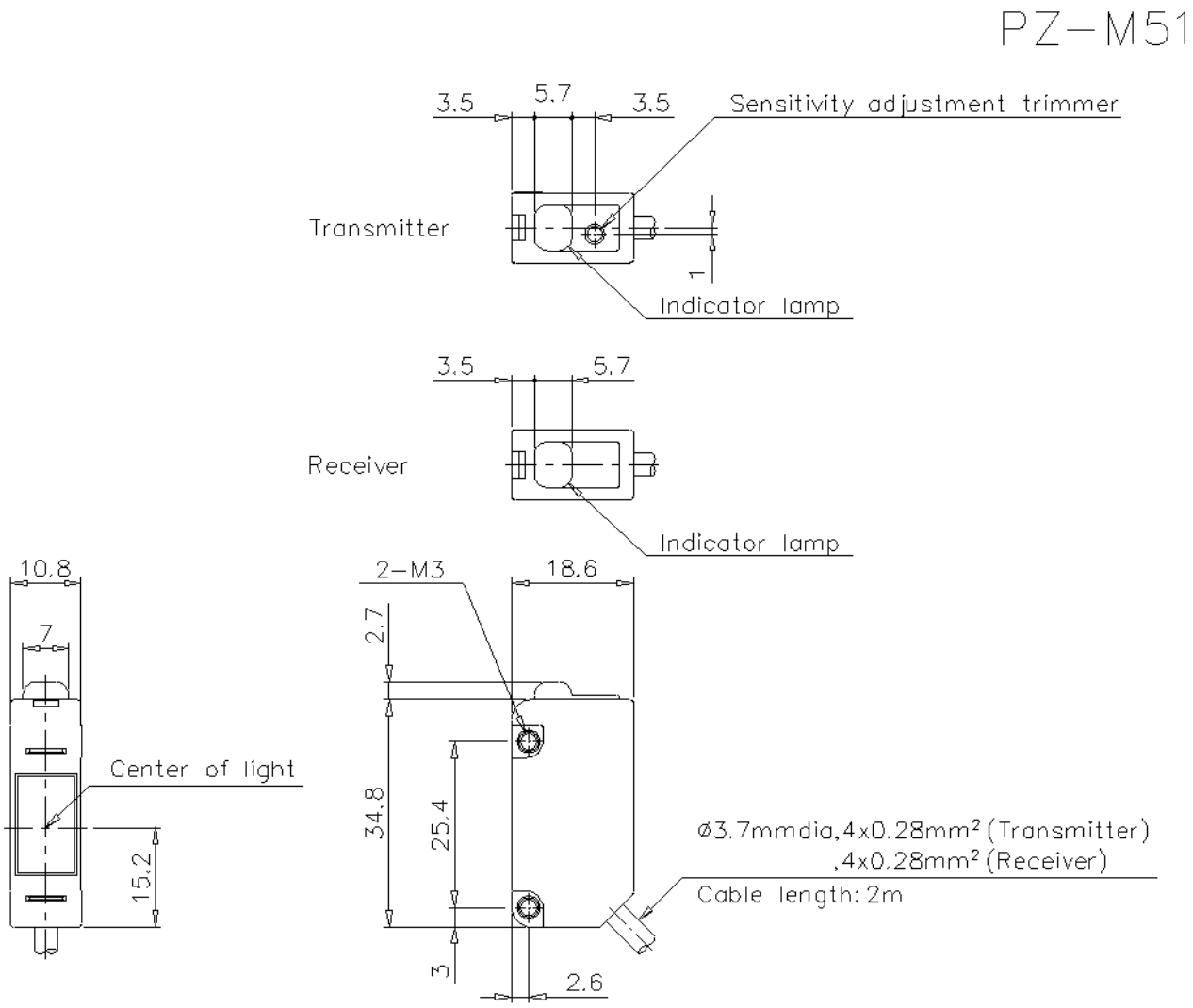
Specifications

Model		PZ-M51
Type		Thrubeam
Output		NPN
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

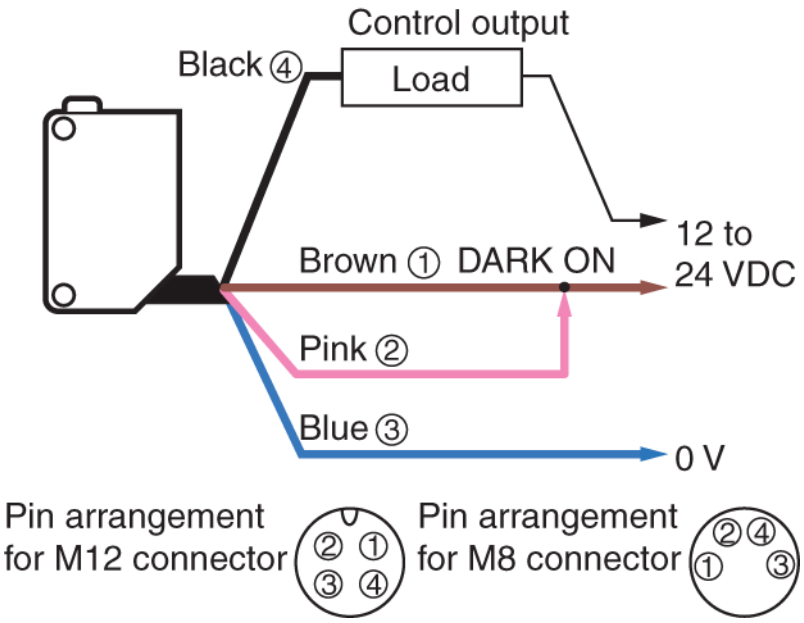
* Download CAD file or product manual for larger image/text and more detail.



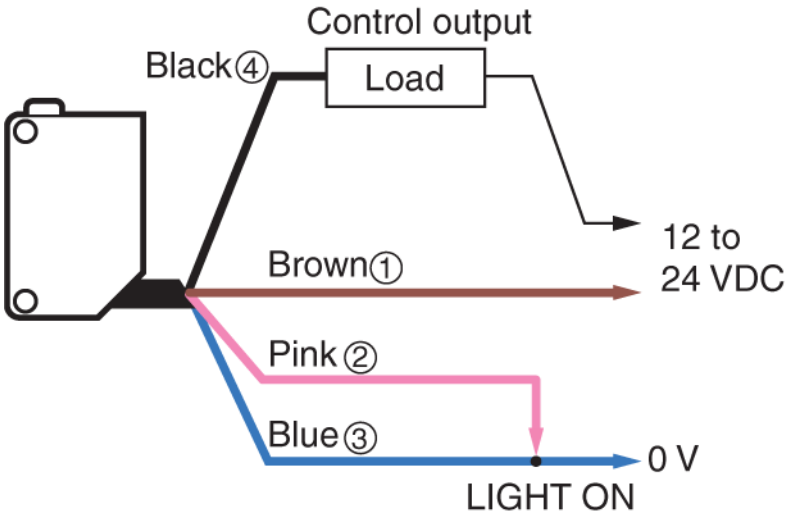
I/O Circuit Connection diagram

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1.DARK-ON mode

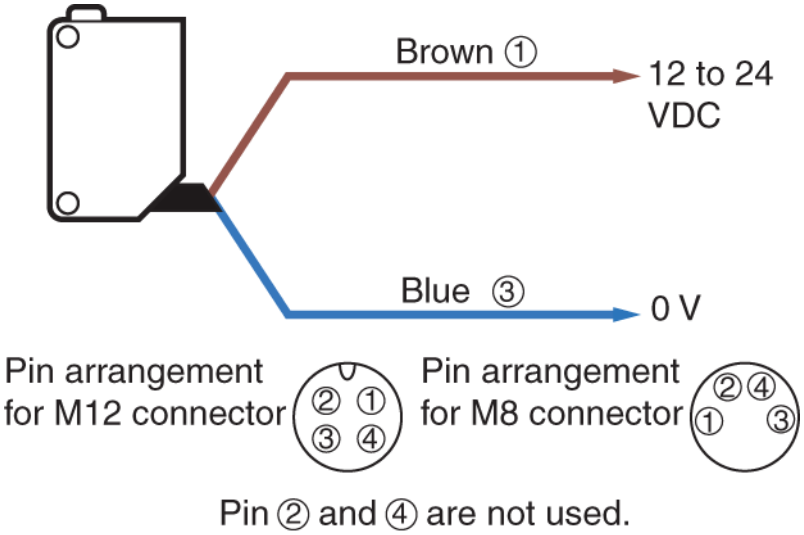


2.LIGHT-ON mode

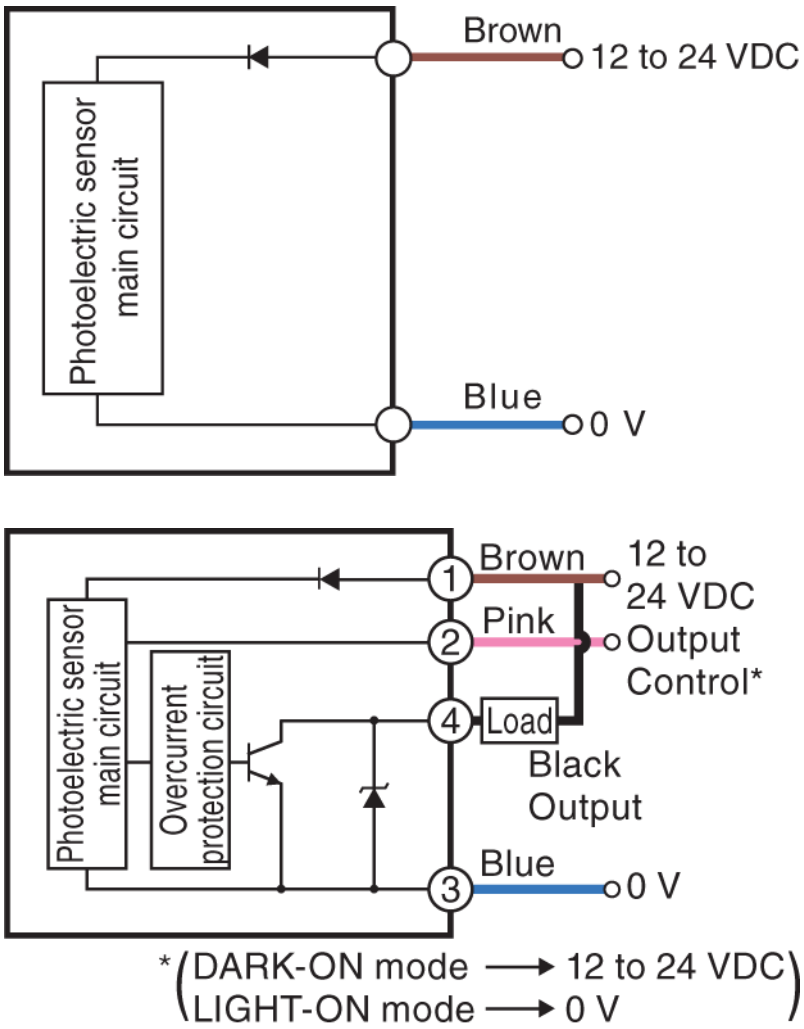


Be sure to connect the pink cable (output control) to the 12 to 24 VDC or 0 V terminal.

(Transmitter)



(Transmitter)



Characteristic

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For all sensors apart from thrubeam types (PZ-M5x), using a sensor with a different frequency can
prevent interference.

