

PZ-V31

Square Reflective 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

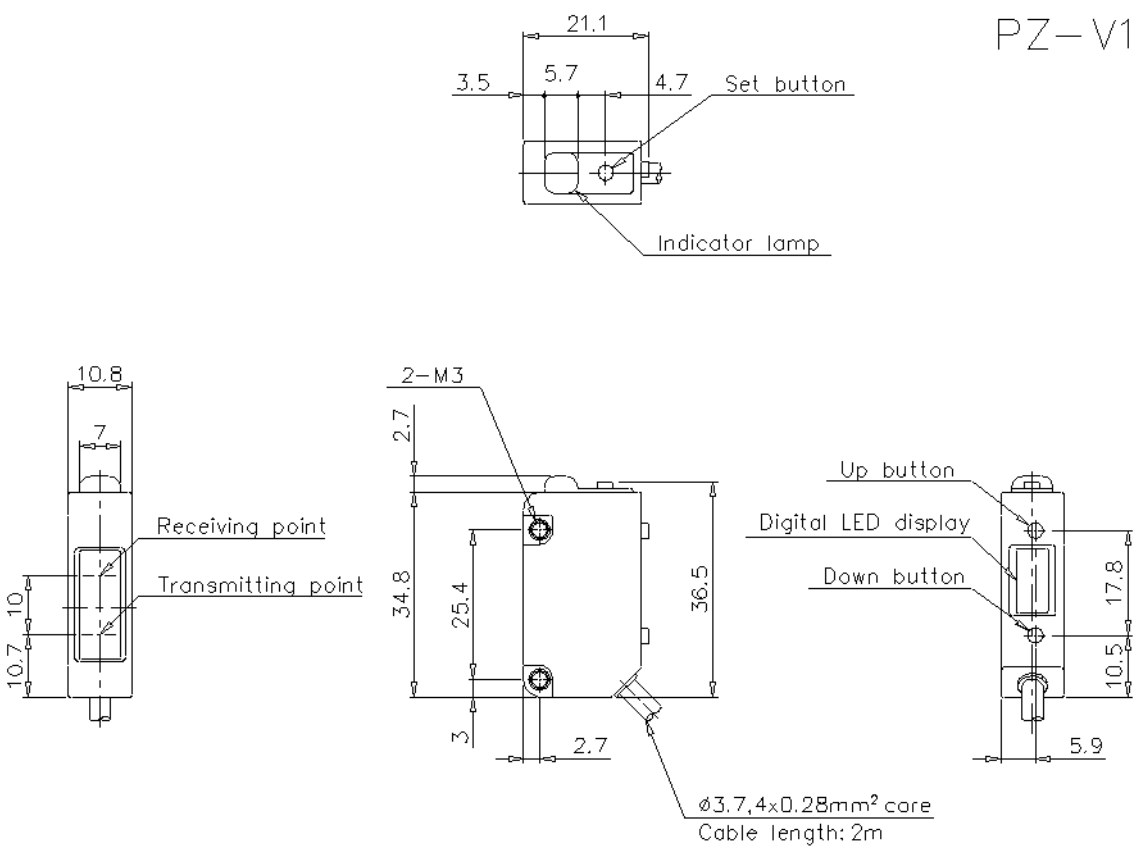
Model		PZ-V31
Type		Intelligent reflective
Output		NPN
Detecting distance		5 to 300 mm0.20" x 11.81" (100 x 100 mm3.94" x 3.94"white mat paper)*1
Setting distance		40 to 300 mm1.57" to 11.81" (100 x 100 mm3.94" x 3.94"white mat paper)
Light source.		Red LED
Sensitivity adjustment		Automatic push button
Response time		1 ms max.
Operation mode		LIGHT-ON/DARK-ON (switch-selectable)
Indicator lamp		Output: orange LED, stable operation: green LED
Control output		100 mA (24 V) max., Residual voltage: 1 V max.
Digital monitor		7-segment, 3-digit red LED
Protection circuit		Reversed polarity, overcurrent protection, surge absorber
Rating	Power voltage	12 to 24 VDC ±10 %, Ripple (P-P) 10 % or less
	Power consumption	37 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		Approx. 55 g (including 2-m 6.6' cable)

*1 The detecting distance is obtained with the maximum sensitivity.

Dimensions

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

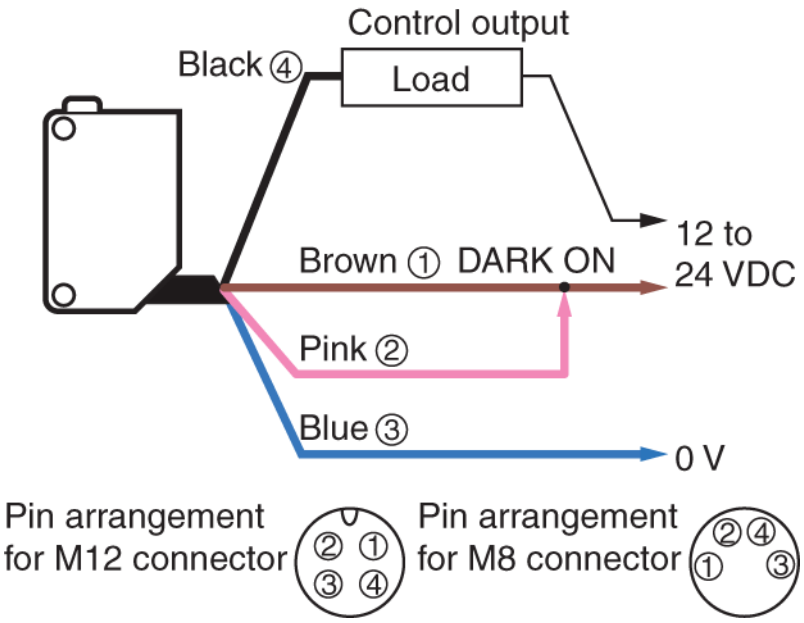
PZ-V11/V31



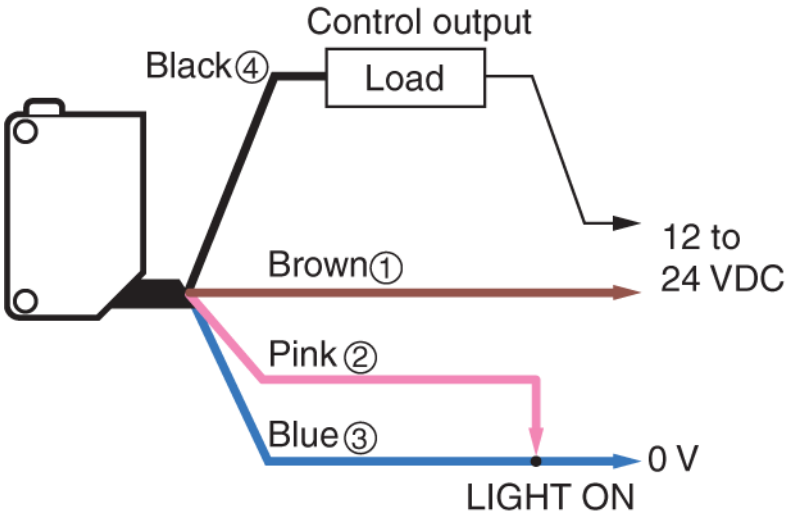
I/O Circuit Connection diagram

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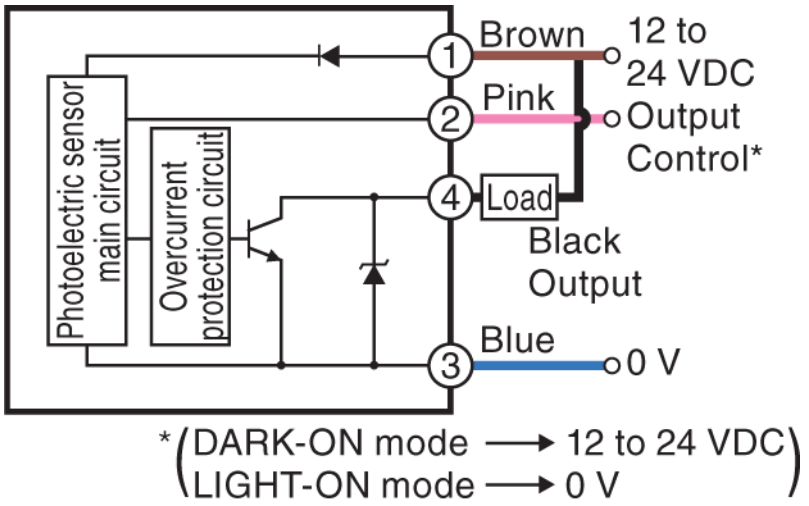
1.DARK-ON mode



2.LIGHT-ON mode



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



Characteristic

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

