



## 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

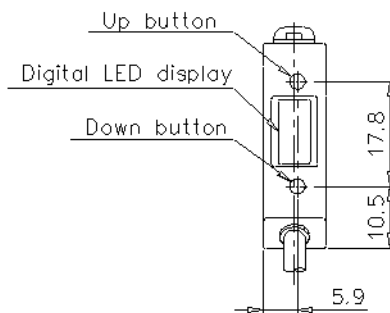
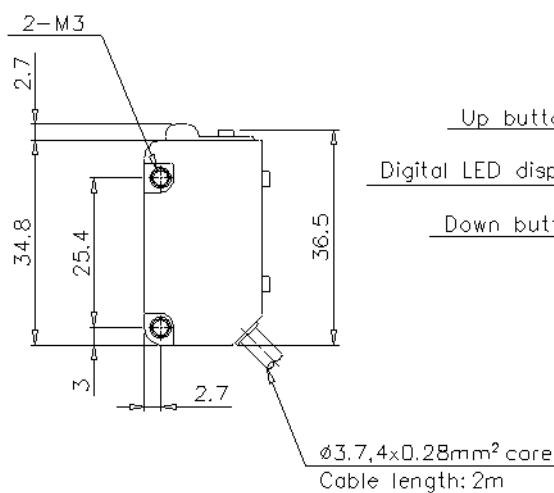
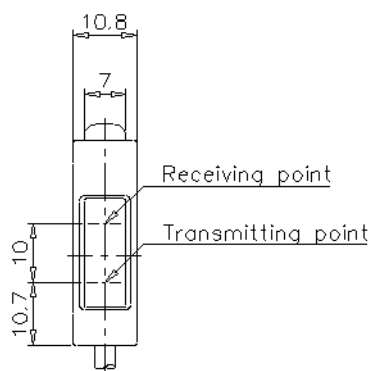
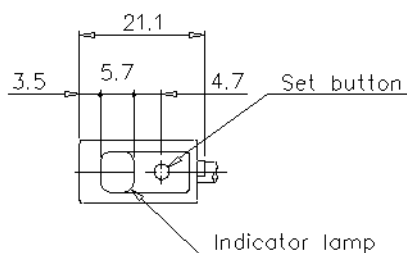
Model	PZ-V31	
Type	Intelligent reflective	
Output	NPN	
Detecting distance	5 to 300 mm <b>0.20" x 11.81"</b> (100 x 100 mm <b>3.94" x 3.94"</b> white mat paper)* <sup>1</sup>	
Setting distance	40 to 300 mm <b>1.57" to 11.81"</b> (100 x 100 mm <b>3.94" x 3.94"</b> white mat paper)	
Light source.	Red LED	
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 <b>-4 to 131 °F</b> (No freezing)
	Relative humidity	35 to 85 % RH (No condensation)
	Vibration resistance	10 to 55 Hz, Double amplitude 1.5 mm <b>0.06"</b> , 2 hours in each of the X, Y, and Z directions
	Shock resistance	1,000 m/s <sup>2</sup> , 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 <b>6.6'</b> cable)	

\*<sup>1</sup> The detecting distance is obtained with the maximum sensitivity.

# Dimensions

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

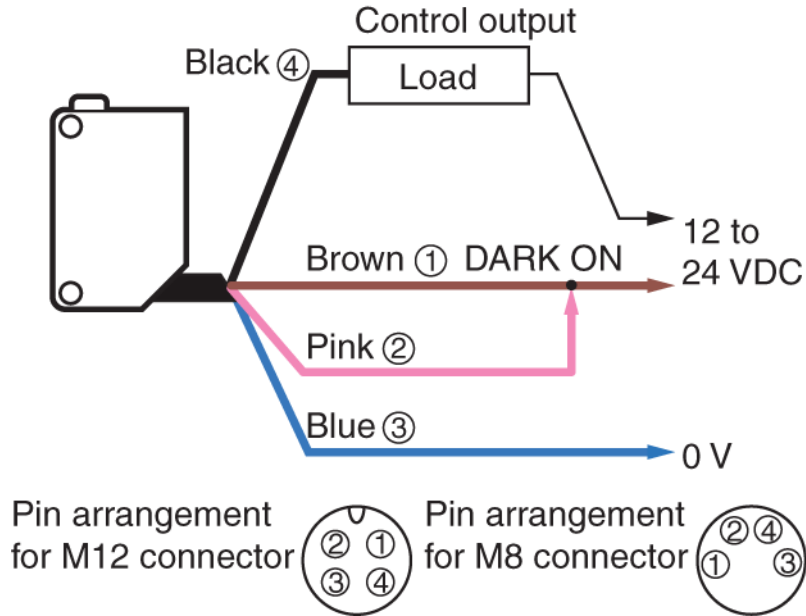
PZ-V11/V31



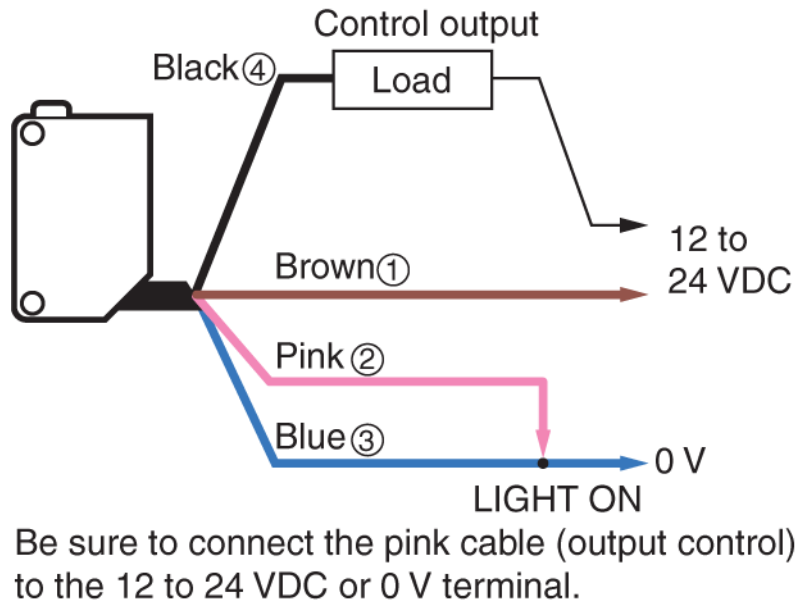
# I/O Circuit Connection diagram

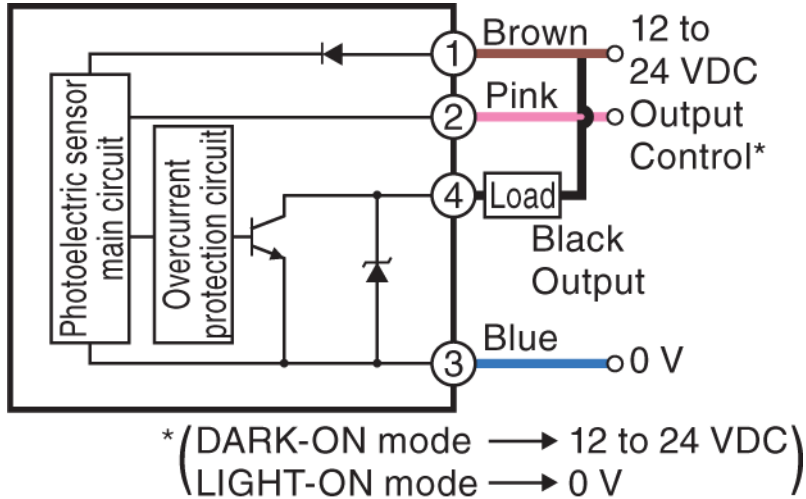
\* Download CAD file or product manual for larger image/text and more detail.

## 1.DARK-ON mode



## 2.LIGHT-ON mode





## Characteristic

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

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

