



# PZ-101

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.

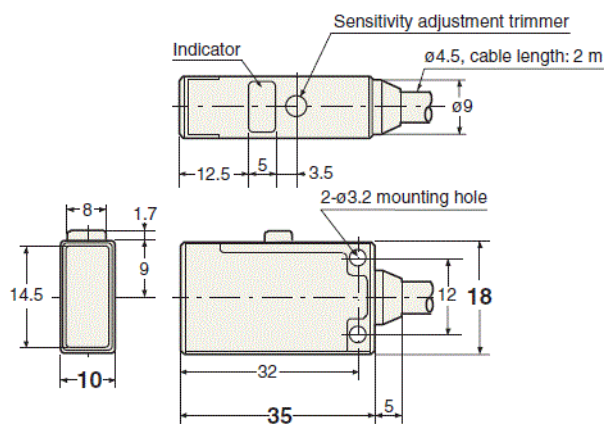
## Specifications

|                          |                      |                                                                                                                       |
|--------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------|
| Model                    |                      | PZ-101                                                                                                                |
| Type                     |                      | Focused-beam                                                                                                          |
| Detecting distance       |                      | 0 to 100 mm 3.94"                                                                                                     |
| Light source             |                      | Visible red LED                                                                                                       |
| Spot diameter            |                      | Approx. 5 mm $\square$ (when detecting distance is 50 mm), Approx. 7 mm $\square$ (when detecting distance is 100 mm) |
| Detectable object        |                      | Transparent and opaque materials                                                                                      |
| Hysteresis               |                      | 20% max. of detecting distance                                                                                        |
| Sensitivity adjustment   |                      | 1-turn trimmer (240°)                                                                                                 |
| Response time            |                      | 1 ms max. (2 ms in alternate frequency mode)                                                                          |
| Operation mode           |                      | LIGHT-ON/DARK-ON (selectable by wiring)                                                                               |
| Indicator lamp           |                      | Output: Red LED, Stable operation: Green LED, Power supply: Red LED                                                   |
| Control output           |                      | NPN open-collector 100 mA max. (40 V max.)                                                                            |
| Stability output         |                      | NPN: 50 mA (40 V) max.                                                                                                |
| Protection circuit       |                      | Reversed polarity, overcurrent protection                                                                             |
| Rating                   | Power voltage        | 12 to 24 VDC $\pm$ 10 %, Ripple (P-P) 10 % or less                                                                    |
|                          | Current consumption  | 30 mA or less                                                                                                         |
| 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                             |
| Case material            |                      | Glass-fi ber reinforced plastic                                                                                       |
| Weight                   |                      | Approx. 75 g                                                                                                          |

## Dimensions

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

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## I/O Circuit Connection diagram

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

### Input/Output CircuitsNPN

