



# PZ-G101CB

Threaded mount Reflective M12 Connector 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-G101CB                                                                                 |
| Type                     |                                         | Diffuse Reflective, Narrow view reflective                                                |
| Shape                    |                                         | Threaded                                                                                  |
| Output                   |                                         | Bipolar (NPN+PNP)                                                                         |
| Cable connection         |                                         | M12 connector *1                                                                          |
| Detecting distance       |                                         | 200 mm<br>7.87"                                                                           |
| Spot diameter            |                                         | Approx. 5 mm<br>0.20" dia.<br>(At a detecting distance of 100 mm 3.94")                   |
| Light source             |                                         | Red LED                                                                                   |
| Sensitivity adjustment   |                                         | 1-turn trimmer (230°)                                                                     |
| Response time            |                                         | 500 μs                                                                                    |
| Operation mode           |                                         | LIGHT-ON/DARK-ON (switch-selectable)                                                      |
| Indicators (LED)         |                                         | Output: Orange LED,<br>Stable operation: Green LED                                        |
| Control output           |                                         | Open collector output, 30 V max., 100 mA max., Residual voltage: 1 V max.                 |
| Protection circuit       |                                         | Reversed polarity, overcurrent protection, surge absorber                                 |
| Interference suppression |                                         | Up to 2 units<br>(with the automatic different frequency function)                        |
| Tightening torque        |                                         | Threaded models (front M18 part): 1.0 N m max., (side slotted hole part): 0.5 N m max.    |
| Rating                   | Power voltage                           | 10 to 30 VDC, including Ripple (P-P) 10 %                                                 |
|                          | Current consumption                     | 34 mA or less                                                                             |
| Environmental resistance | Enclosure rating                        | IEC: IP67/NEMA: 4A, 6, 12/DIN: IP69K                                                      |
|                          | 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                                 |
| Material                 | Housing, M18 nut (threaded models only) | Glass-fiber reinforced PBT                                                                |
|                          | Lens cover                              | Polyarylate (PAR)                                                                         |
|                          | Trimmer                                 | Glass-fiber reinforced polyamide (PA)                                                     |
|                          | Case connection                         | Screw: Nickel-plated iron and zinc, packing: nitrile butadiene rubber (NBR)               |

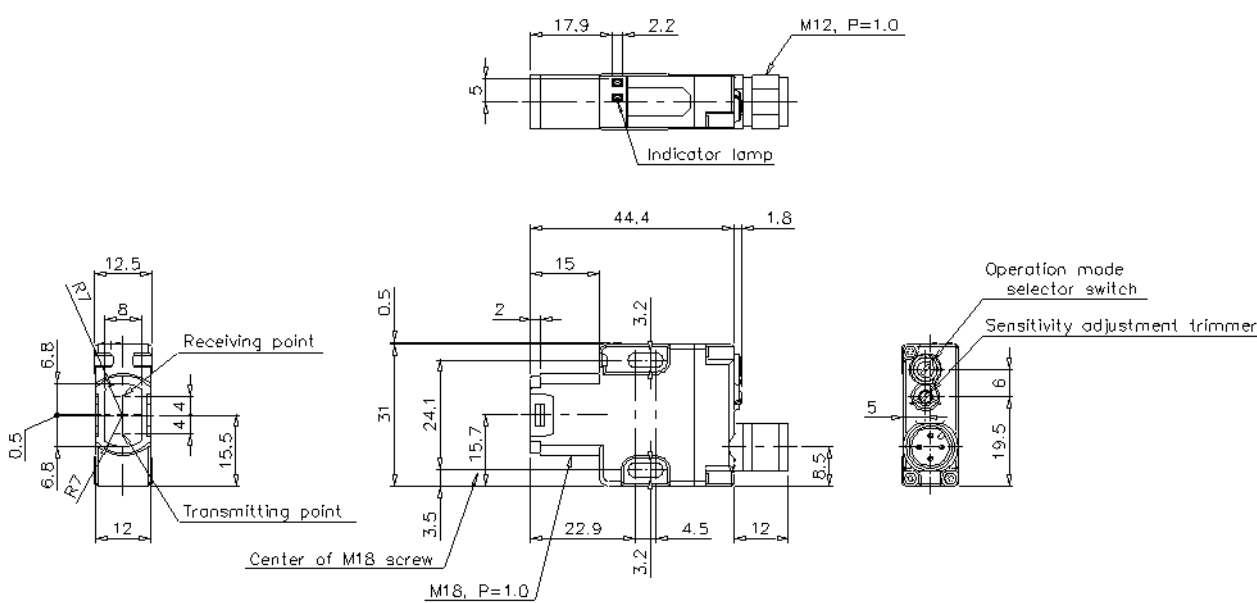
|             |                                                              |                          |
|-------------|--------------------------------------------------------------|--------------------------|
|             | Cable (cable models only)                                    | Polyvinyl chloride (PVC) |
|             | Connector (connector type with cable only)                   | —                        |
| Accessories | Instruction manual, M18 nut x 1 piece (threaded models only) |                          |
| Weight      | Threaded connector models: Approx. 15 g                      |                          |

\*1 Cable sold separately for connector models

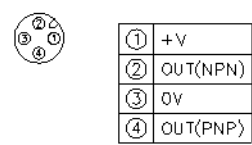
Dimensions

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

PZ-G101CB/G102CB



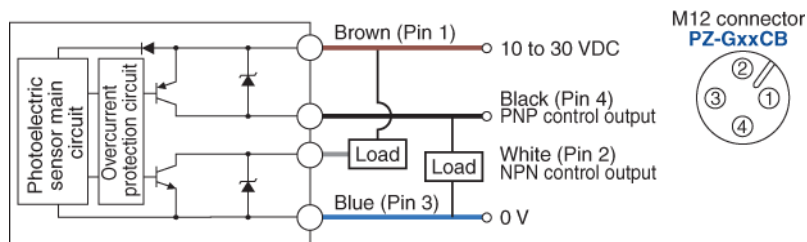
Pin arrangement



## I/O Circuit Connection diagram

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

Bipolar output  
(thru-beam receiver, reflective, retro-reflective)



## Characteristic

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