

# PZ-G41EN

Square Reflective M12 Connector Type with Cable, 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-G41EN |
| Type | | Diffuse Reflective, Long-range |
| Shape | | Rectangular |
| Output | | NPN |
| Cable connection | | M12 pigtail connector *1 |
| Detecting distance | | 1 m 3.3' (When detecting 30 x 30 cm 11.81"x11.81" white paper) |
| Spot diameter | | — |
| 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, 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 (with the automatic different frequency function) |
| Tightening torque | | Rectangular models (Mounting 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) |

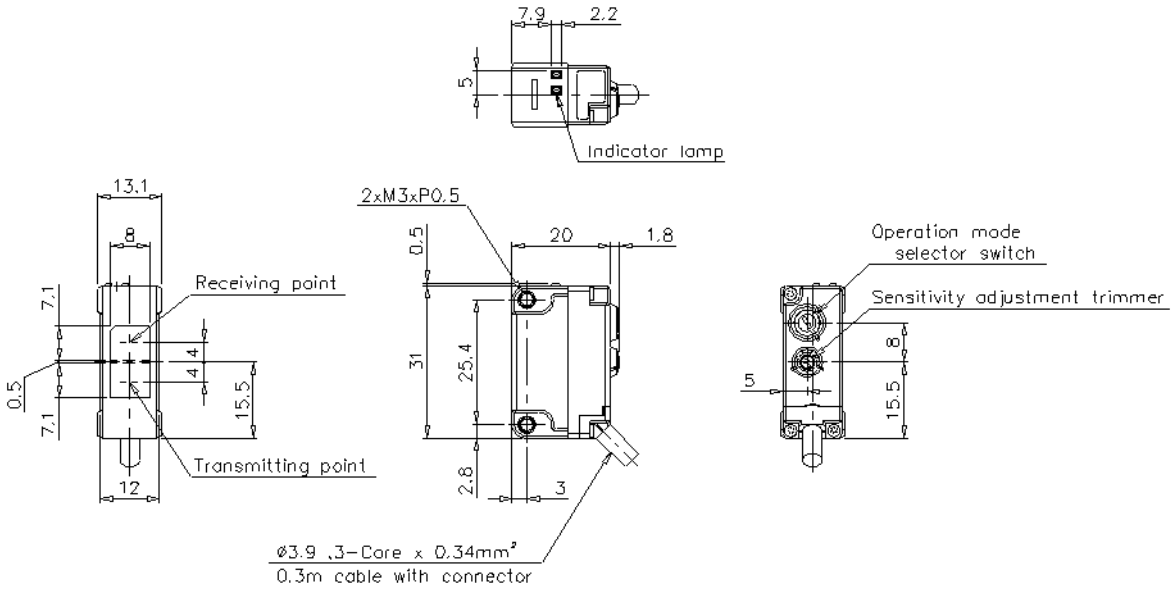
| | |
|---|---|
| Accessories | Instruction manual |
| Weight | Rectangular M12 pigtail quick disconnect model: Approx. 30 g |

*1 Cable sold separately for connector models

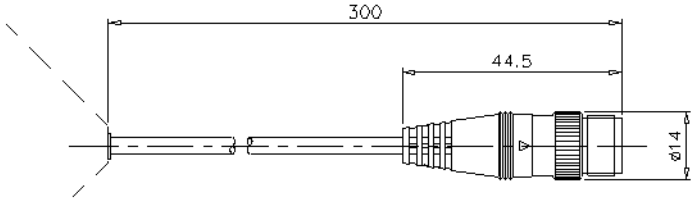
# Dimensions

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

PZ-G41EN/G41EP/G42EN/G42EP




Detail of cable + connector




Pin arrangement

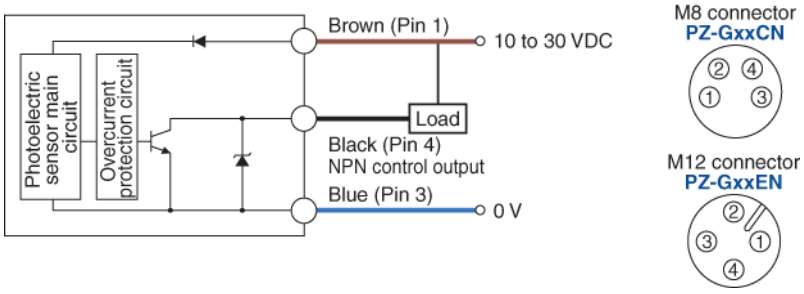



| | |
|---|---|
| 1 | +V |
| 2 | – |
| 3 | 0V |
| 4 | OUT |

# I/O Circuit Connection diagram

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

## NPN output
## (thrubeam receiver, reflective, retro-reflective)




# Characteristic

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

