

PZ-G102EP

Square Reflective M12 Connector Type with Cable, PNP

*Please note that accessories depicted in the image are for illustrative purposes only and may not be included with the product.

Specifications

Model		PZ-G102EP
Type		Diffuse Reflective, Definite reflective
Shape		Rectangular
Output		PNP
Cable connection		M12 pigtail connector *1
Detecting distance		5 to 45 mm 0.20" to 1.77"
Spot diameter		Approx. 2 mm 0.08" dia. (At a detecting distance of 40 mm 1.57")
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)

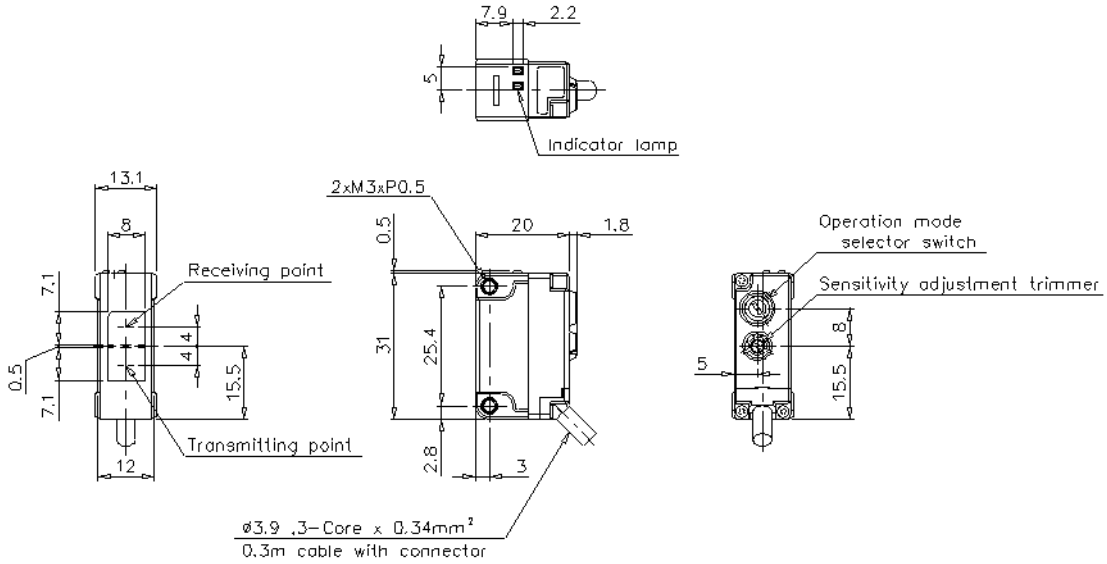
Accessories	Instruction manual
Weight	Rectangular M12 pigtail quick disconnect model: Approx. 30 g

*1 Cable sold separately for connector models

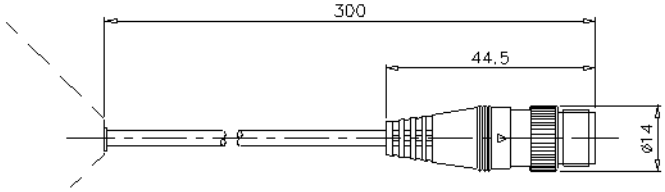
Dimensions

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

PZ-G101EN/G101EP/G102EN/G102EP



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.

PNP output
(thrubeam receiver, reflective, retro-reflective)

