



# PR-G41N

Rectangular Diffuse Reflective Type Cable Type 500 mm



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

## Specifications

Model		PR-G41N
Type		Diffuse reflective (Long distance)
Shape		Rectangular
Output		NPN
Cable connection		2 m cable
Detecting distance		500 mm19.685"
Number of control outputs		2 (Dark-ON +Light ON)*1
Output operation	Output 1	Light-ON
	Output 2	Dark-ON*2
Response time		0.5 ms
Sensitivity adjustment		Five-turn trimmer
Spot diameter		ø20 mm ø0.79" max. (at 300 mm 11.81")
Light source		4 elements, Point light source red LED (650 nm)
Light interference prevention function		2
Indicator lamp		7 segment display (0 to 999), output indicator (yellow)
Control output		NPN open collector 30 VDC or less, 100 mA or less Residual voltage: 1.2 V or less at less than 10 mA, 2 V or less at 10 to 100 mA
Stop emission input		—
Protection circuit		Protection against reverse power connection, power supply surge, output overcurrent, output surge, and reverse output connection
Rating	Power voltage	10 to 30 VDC, including Ripple (P-P) 10 %
	Power consumption	450 mW max. (15 mA max. at 24 V, 21 mA max. at 12 V)
Environmental resistance	Enclosure rating	IP68 (IEC60529), IP69K (DIN40050-9), 4X, 6P, 13 (NEMA250)*3
	Insulation resistance	20 MΩ or more (500 VDC)
	Ambient light	Incandescent lamp: 5,000 lux or less, Sunlight: 20,000 lux or less
	Ambient temperature	-20 to +70 °C -4 to 158 °F (No freezing)*4
	Storage temperature	-20 to +70 °C -4 to 158 °F
	Relative humidity	35 to 85 % RH (No condensation)
	Withstand voltage	1,000 VAC, 50/60 Hz, 1 min
	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/s <sup>2</sup> , 6 times in each of the X, Y, and Z directions
Material		Case: SUS 316L, Indicator cover: PES, 7-segment display cover/Lens cover: PMMA (scratch-resistant coating)

	M18 nut: Brass (Nickel plating), Lock washer: Steel (Chrome plating)
Accessories	Instruction manual
Weight	Approx. 75 g

\*1 For the threaded mount type sensors, the outputs are 1 NPN output and 1 PNP output.  
\*2 Output 2 is not available on the threaded mount type or M8 3-pin type.  
\*3 For the connector type, the enclosure rating varies depending on the cable that is used.  
\*4 When the ambient temperature is 60 °C 140 °F or higher, the device should be powered with no more than 24 VDC and 50 mA.

## Dimensions

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

PR-G41N/G42N/G61N/G61P

