



PR-G41CP

Rectangular Diffuse Reflective Type M8 Connector Type, 500 mm



Specifications

Model	PR-G41CP	
Type	Diffuse reflective (Long distance)	
Shape	Rectangular	
Output	PNP	
Cable connection	M8 connector (4 pin)	
Detecting distance	500 mm 19.685"	
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	PNP 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 ² , 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. 25 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-G41CP/G42CP/G61CP/G61C3PD

