



PR-G41CBL

M18 Threaded type diffuse reflective M12 Connector Type, 500 mm



SPECIFICATIONS

Model		PR-G41CBL
Type		Diffuse reflective (Long distance)
Shape		Threaded mount type
Output		NPN+PNP
Cable connection		M12 connector (4 pin)
Detecting distance		500 mm 19.685"
Number of control outputs		2 (NPN+PNP)
Output operation	Output 1	Light-ON
	Output 2	Dark-ON ^{*1}
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 + 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), 4, 6, 13 (NEMA250) ^{*2}
	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) ^{*3}
	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
Accessories		Instruction Manual, M18 nut, Lock washer
Weight		Approx. 45 g

^{*1} Output 2 is not available on the threaded mount type or M8 3-pin type.

^{*2} For the connector type, the enclosure rating varies depending on the cable that is used.

^{*3} 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

PR-G41CBL/G42CBL/G61CBD

