KEYENCE

PR-FB15C3PL

Flat Reflective (Background suppression) M8 Connector Type, 15mm

CE   ECOLAB   Diversey   c(UL)us

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

Specifications

Model		PR-FB15C3PL*1
Type		Reflective (Background suppression)
Output		PNP
Shape		Flat
Cable connection		M8 connector (3 pin)
Detection distance		1 to 15 mm 0.04" to 0.59"
Number of control outputs		1 output
Output operation	Output 1	-
	Output 2	Light-ON
Response time	Output 1	-
	Output 2	ON→OFF: 2.7 ms, OFF→ON: 0.5 ms
Sensitivity adjustment		None
Spot diameter		Approx. 2.5 x 4.5 mm (at 15 mm)
Light source		4 element, point light source, red LED (650 nm)
Mutual interference prevention function		4 sensors
Indicator lamp		Output indicator (orange), stable operation indicator (green), thrubeam type transmitter: power supply indicator (green)
Control output		30 VDC or lower, 50 mA or lower Leakage current: When 3 kΩ load resistance, 0.3 mA or lower. When 1 kΩ load resistance, 0.5 mA or lower. When 0.2 kΩ load resistance, 1.5 mA or lower Residual voltage: When 10 mA or lower, 1.0 V or lower. When 10 to 30 mA, 1.5 V or lower. When 30 to 50 mA, 2.0 V or lower.
Protection circuit		Power supply reverse connection protection, output overcurrent protection, output surge protection, power supply surge protection
Rating	Power voltage	10 to 30 VDC, including 10 % ripple (P-P)
	Current consumption	19 mA
Environmental resistance	Enclosure rating	IP67 (IEC60529), 4X, 6P, 13 (NEMA250)
	Insulation resistance	20 MΩ or higher (500 VDC)
	Ambient light	Incandescent lamp: 5,000 lux or lower, Sunlight: 20,000 lux or lower
	Ambient temperature	-25 to +55 °C -13 to 131 °F (No freezing)
	Storage temperature	-25 to +75 °C -13 to 167 °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/s², 6 times in each of the X, Y, and Z directions

Material	Case: SUS316L, indicator cover/lens cover: polysulfone, cord protector: polymethylpentene, filler: polyester-based resin
Accessories	Instruction Manual
Weight	Approx. 10 g

*1 The M8 connector (3 pin) type has 1 control output. If "D" is at the end of the part number, the sensor is equipped with a Dark-ON output. If "L" is at the end of the part number, the sensor is equipped with a Light-ON output. Example: The PR-M51C3PL has a Light-ON output.

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Dimensions

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

PR-FB15CN/FB15CP/FB15C3PL/FB30CN/FB30CP/FB30C3PL

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Receiving point
Indicator
2×R3
5.5
Transmitting point
27
22
10
2×Ø3.2
6.5
8
Ø2.6
(147)
(26.2)
(Ø9)

4.5
1.5