



LR-ZB100CP

Rectangular w/ M8 connector Type, 100 mm



ECOLAB

Diversey

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

Specifications

Model		LR-ZB100CP
Type		Distance based laser sensor
Shape		Rectangular
Output		PNP
Cable connection		M8 connector, 4-pin
Detectable distance		35 to 100 mm (650 to 0)*1
Standard detectable deviation		35 to 50 mm: 1.5 mm 50 to 100 mm: 3 mm
Display resolution		2 (0.2 mm)
Spot diameter		Approx. 2 × 1 mm at 100 mm
Response time		1.5 ms / 10 ms / 50 ms selectable
Light source	Type	Red laser (660 nm)
	Laser class	Class 1 laser product (IEC60825-1, FDA (CDRH) Part1040.10*2)
Function	Indicator	3-digit 7-segment display (red), output indicator (yellow), DATUM indicator (orange), 1 spot indicator (green)
	Timer	OFF/ON delay/OFF delay/One-shot
Rating	Power voltage	10 to 30 VDC, including 10% ripple (P-P), Class 2 or LPS
	Power consumption	450 mW or less (18 mA or less at 24 V, 34 mA or less at 12V)
Specifications	Control output	PNP Open collector, Applied voltage 30 VDC or less, Control current 100 mA or less, Residual voltage 1.2 V or less at 10 mA or less, 2 V or less at 10 to 100 mA
	Protection circuit	Protection against reverse power connection, output overcurrent, output surge, reverse output connection
	Output operation	Light-ON / Dark-ON selectable
	External input	Input time calibration: 35 ms or more ON, 35 ms or more OFF Laser emission stop: 2 ms or more ON, 20 ms or more OFF Short-circuit current NPN: 1 mA or less/PNP: 2 mA or less
Environmental resistance	Enclosure rating	IP68 (IEC60529), IP69K (DIN40050-9), NEMA 4X, 6P, 13 (NEMA250), ECOLAB*3, Diversey*3
	Insulation resistance	20 MΩ or more (500 VDC)
	Ambient light	Incandescent lamp: 4,000 lux or less Sunlight: 8,000 lux or less*4
	Ambient temperature	-10 to +50 °C (No freezing)
	Relative humidity	35 to 85 % RH (No condensation)
	Storage temperature	-25 to +75 °C (No freezing)
	Withstand voltage	1,000 VAC, 50/60 Hz, 1 min

	Vibration resistance	10 to 55 Hz, Double amplitude 1.5 mm, 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: SUS316L, Display: PES, Lens cover: PMMA with scratch-resistant coating, Packing/Connector ring: FKM	
Accessories	Instruction Manual, Certification/Identification label (FDA)	
Weight	Approx. 55 g	

*1 Display readings can be used as a guide for the detecting distance. When the setting value is tuned, the readout shifts. When the value exceeds "-99", "-FF" is displayed.

*2 The laser classification for FDA (CDRH) is implemented based on IEC60825-1 in accordance with the requirements of Laser Notice.

*3 Have passed resistance tests with cleaning agents from multiple manufactures.

*4 When the response time is 10 ms

Dimensions

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

LR-ZB100C/ZB250C

