Panasonic ideas for life

Compact Cylindrical Photoelectric Sensor

CZ-111A/CZ-111B

Environment-resistanceand

Conforming to

Stable detection

Features: This small screw-type photoelectric sensor is designed catering to the requirements of environment-resistance performance and low cost, thus making its application being wider.

- 1 M12 × 28 mm small size
- 2 Functions normally in the range of -25 to +55°C -13 to 1319
- 3 Resistant to the interference of incandescent light of 10,000 ℓx , thus it can ensure the accurate and reliable detection.
- 4 Featuring an IP67 anti-dip protection structure for better protection



Flexible installation

Mounting head Mounting nut Main body of the sensor







The removable mounting head and mounting nut can be combined freely, thus realizing the flexible installation in various applications.

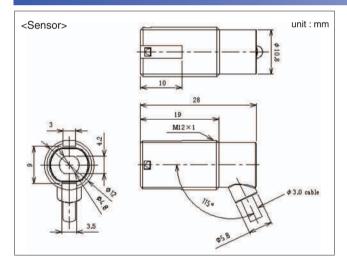


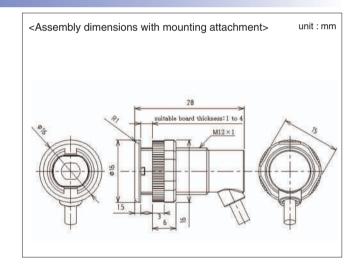
The protection structure conforming to IP67 (IEC) is used for better waterproof and dustproof performances.

Specifications

Model No.		NPN output type	CZ-111A	CZ-111B
		PNP output type	CZ-111A-P	CZ-111B-P
Power supply voltage		ply voltage	12 to 24 V DC ± 10 %/Ripple p-p: 10 % or less	
Current consumption			Emitter: 18 mA or less Receiver: 15 mA or less	
			<npn output="" type=""> NPN open-collector transistor</npn>	<pnp output="" type=""> PNP open-collector transistor</pnp>
	Output operation		Light-ON	Dark-ON
Output	Short-circuit protection		Available (automatic restore function)	
	Load current		50 mA or less	
	External voltage		<npn output="" type=""> 30 V DC or less (between output and 0 V)</npn>	<pnp output="" type=""> 30 V DC or less (between output and +V)</pnp>
	Residual voltage		1 V or less (at current of 50 mA sink / source current)	
Response time			2 ms or less	
Emitting element		element	Infrared LED (modulation) Luminance wave: 850 nm	
Indicator	Operation indicator		Orange LED (lit when output ON) equipped on the emitter	
indicator	Power supply indicator		Green LED (lit when power ON) equipped on the emitter/receiver	
Sensing range		g range	5 m	
Sensing object			φ8mm 0.315 in or more opaque	
Ambient temperature		mperature	-25 to + 55 °C -13 to + 131 °F (with no condensation or icing) Storage: -30 to + 70 °C -22 to + 138 °F	
Ambient humidity		humidity	35 to 85% RH	
Ambient illuminance		luminance	Incandescent light: 10,000 ℓx max. on the surface of the receiver	
Protection		ction	IP67 (IEC)	
Vibration resistance		resistance	10 to 500 Hz, 2 amplitude 1.5 mm/MAX 10 G for 2 hours each in X, Y and Z directions (when power OFF)	
Shock resistance		sistance	500 m/s ² (approx. 50 G), 3 times each in X, Y and Z directions (when power OFF)	
Withstand voltage		d voltage	1,000V AC, 1 minute (between power cable and case)	
Insulation resistance		resistance	250V DC megger, 20 MΩ min.	
Grounding		nding	Floating	
Mounting torque		g torque	0.25 N·m or less	
Material	Lens		PC	
		Case	Material: PC, C	olor: black
	Туре		Emitter: 0.15 mm² 2-core cabtyre cable Receiver: 0.15 mm² 3-core cabtyre cable	
Cable	Standard length		0.5 m 1.640 ft	
	Cable extension		0.3 mm ² (min.) cable extendable up to 100 m 328.084 ft	
	Differentiation (by color)		Brown: + V Blue: 0 V Black: Output (Only receiver)	
Weight		ight	Net weight: approx. 20 g, Gross weight: approx. 25 g	

Dimensions





Please contact.....

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