

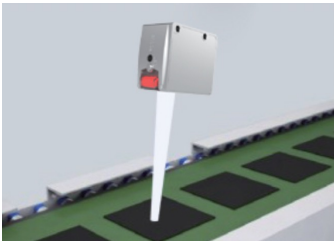
White LED Long Range Digital RGB

[CX-W]

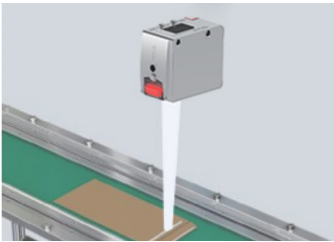
- White LED light source with wide wavelength
- Anti-shake and background suppression
- Long range detection (70 to 500 mm)
- Adjustable light spot



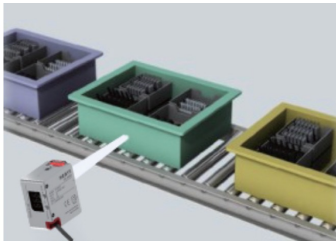
Applications



Absence and presence on thin layer product



Glue mark absence and presence detection



Various box colour detection on conveyor

Easy adjust on beam diameter



Specifications

Amplifier

Model	NPN	CX-W70N	CX-W500N	CX-W8N
	PNP	CX-W70P	CX-W500P	CX-W8P
Detecting distance	30 to 70 mm		50 to 500 mm	Depending on sensor head
Smallest beam diameter	1.6 x 2.9 mm at 50 mm		Ø 3.5 mm at 100 mm Ø 9 mm at 250 mm Ø 20 mm at 500 mm	
Response time	200 µs / 1 ms / 10 ms / 100 ms / 500 ms			
Light source	White LED			
Mutual interference reduction function	Up to 2 units when alternate frequencies set			
Timer	OFF / ON delay / OFF delay / One-shot			
Power supply	10 to 30 VDC, including 10% ripple (P-P), Class 2			
Current consumption	50 mA or less (without load) at 24 VDC; 100 mA or less (without load) at 12 VDC			
Control output	NPN open collector / PNP open collector selectable, 30 VDC or less, 100 mA or less, remaining voltage: 2 V or less, N.O. / N.C. selectable			
External input	Tuning / laser emission stop selectable			
Protection circuit	Reverse power connection, power supply surge, output overcurrent, output surge, and reverse output connection			
Enclosure rating	IP65			
Ambient light	Incandescent lamp: 10,000 lux or less, Sunlight: 20,000 lux or less			
Ambient temperature	-20 to +50°C (No freezing)			
Relative humidity	35 to 85% RH (No condensation)			
Shock resistance	1,000 m/s ² 6 times in the X and Y direction			
Vibration resistance	10 to 55 Hz Double amplitude 1.5 mm in the X, Y, Z axis directions respectively, 2 hours			
Material	Case: Zinc die cast (Nickel chrome plating), Indicator cover: Polycarbonate, Buttons: Stainless steel			
Weight	Approx. 128 g			

Overview

Code Reader

Handheld Reader

Vision Sensor

Vision System

Fiberoptic Sensor

Photoelectric Sensor

RGB Colour Sensor

Proximity Sensor

Ultrasonic Sensor

Safety Curtain

Ionizer

Fibre unit for CX-W8

Type	Adjustable	Side-view adjustable	Long-range	Short-range	Small beam spot	Rectangle beam reflective	
Model	CZ-A22	CZ-A13	CZ-A18	CZ-A65	CZ-A60	CZ-A75	CZ-A7
Appearance							
Detecting range	10 to 30 mm	3 to 15 mm	50 to 90 mm	12 to 20 mm	50 to 70 mm	5 to 20 mm	5 to 10 mm
Smallest beam diameter	0.9 to 3.5 mm dia.	0.9 to 1.5 mm dia.	6 mm dia.	1 mm dia.	2 mm dia.	1.7 x 8.2 mm dia.	1.5 x 7 mm dia.
Min. bend radius	R25		R15				
Enclosure rating	IP40		IP67			IP40	
Fibre unit length	2 m free-cut	1 m	2 m free-cut			1 m	1 m
Relative humidity	35 to 85% RH (No condensation)						
Ambient temperature	-40 to +70°C (No freezing)						
Housing material	Polycarbonate						
Weight	10 g	15 g	30 g			23 g	25 g

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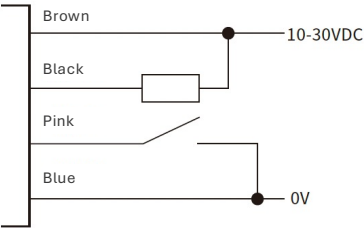
Ultrasonic Sensor

Safety Curtain

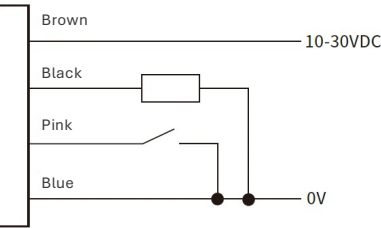
Ionizer

Wiring Diagram

NPN

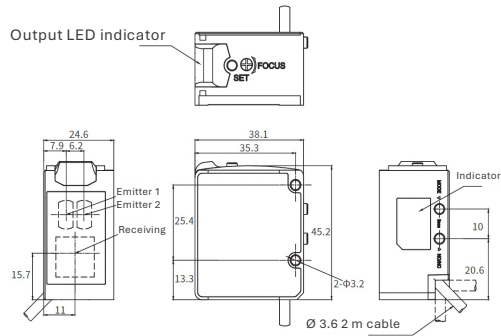


PNP

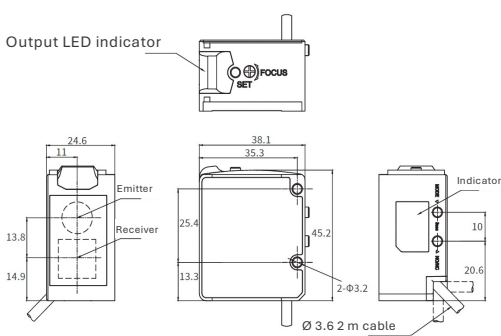


Dimensions

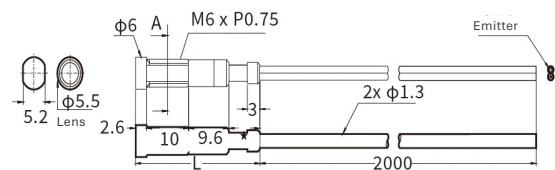
CX-W70



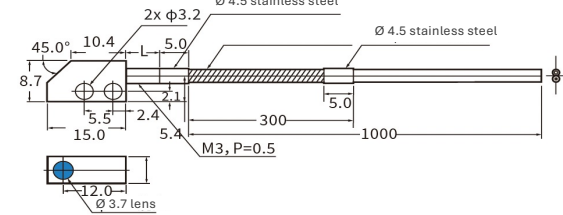
CX-W500



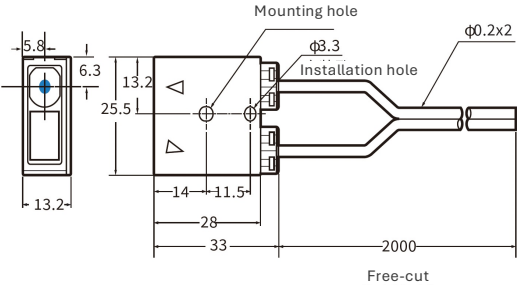
CZ-A22



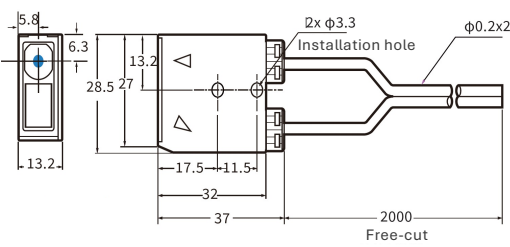
CZ-A13



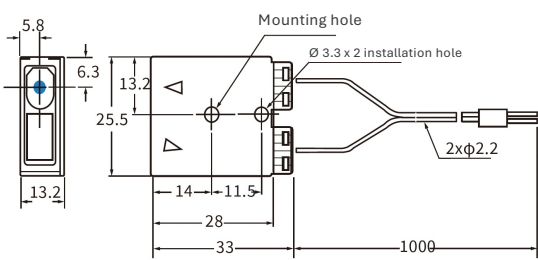
CZ-A18



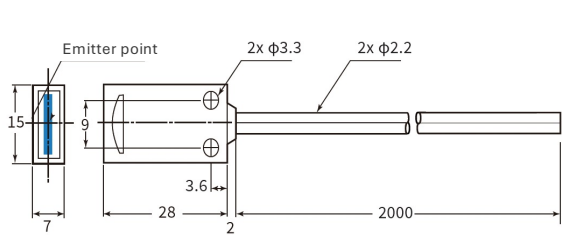
CZ-A65



CZ-A60



CZ-A75 / CZ-A7



RGB Colour Sensor

Overview
Code Reader
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Ionizer