



คุณสมบัติ

- CD22-SERIES เป็น Displacement Sensor ที่ประกอบไปด้วย Controller และ Sensor Head อยู่ในตัวเดียวกัน
- มีหน้าจอแสดงผลระยะในการตรวจจับแบบ 7-Segment 4 หลัก
- เอาท์พุทแบบ Analog 4-20mA, 0-10VDC, RS485 และ Digital NPN, PNP

ข้อมูลทางเทคนิค

Model	Aluminum housing	CD22-15□□	CD22-35□□	CD22-100□□
	SUS housing	CD22M-15□□	CD22M-35□□	CD22M-100□□
Center of measurement range		15 mm	35 mm	100 mm
Measurement range		±5 mm	±15 mm	±50 mm
Light source		Red laser diode (wavelength 655 nm)		
		Max. output: 390 μW		
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Laser class	IEC/JIS	Suffix none : CLASS 1 / 2 : CLASS 2		
	FDA	Class II		
Spot size *1		500 * 700 μm	450 * 800 μm	600 * 700 μm
Linearity		0.1% of F.S.	0.1% of F.S.	0.1% of F.S.
Repeatability *2		1 μm	6 μm	20 μm
Sampling period		500 μs / 1000 μs / 2000 μs / 4000 μs / AUTO		
Temperature drift (typical value)		±0.02 % / °C of F.S.	±0.02% / °C of F.S.	±0.05% / °C of F.S.
Indicator		Laser indicator: Green / Zero reset indicator: Red		
		Output indicator: Orange / Mode indicator: Red		
MF (multiple function) Input		Laser OFF, Teaching, Sample & Hold, One shot, Zero reset		
Control Output		NPN/PNP max.100mA/DC30V (Residual voltage 1.8 V max.)		
Current consumption		70mA max. including Analog output current		
Protection circuit		Reverse connection protection, Overcurrent protection		
Protection category		IP67 including connection part		
Operating Temp./Humid.		-10 ~ 50 °C / 35 ~ 85% RH without freezing or condensation		
Storage Temp./Humid.		-20 ~ 60 °C / 35 ~ 85% RH		
Ambient illuminance		Incandescent lamp: 3,000 lx max.		
Vibration resistance		10 ~ 55 Hz, Double amplitude 1.5 mm, X,Y,Z for 2 hours		
Shock resistance		500 m/s ² (approx. 50G) X,Y,Z 3 times each		
Material		Case : Aluminum / SUS316, Front lens : PPSU, Display: PET		
Weight		Aluminum housing with M12 connector 300 mm cable with connector : Approx. 60 g including 300mm cable with connector		
		SUS housing with M12 connector type 300 mm cable with connector : Approx. 90 g including 300mm cable with connector		
		Aluminum housing with M8 connector : Approx. 40 g		
		SUS housing with M8 connector : Approx. 70 g		

The specifications are based on the condition unless otherwise designated: Ambient temperature: 23°C, Supply voltage: 24VDC, Sampling period: 500μs,

Averaging: 64, Measuring distance: Center of the range, Testing object: White ceramic

※ 1 Defined with center strength 1/e² (13.5%) at the center. There may be leak light other than the specified spot size.

The sensor may be affected when there is a highly reflective object close to the detection area.

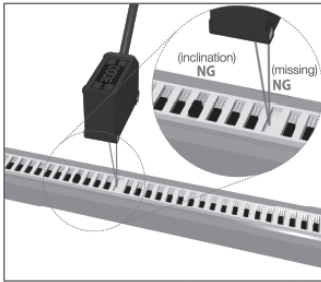
※ 2 512 averaging time

output

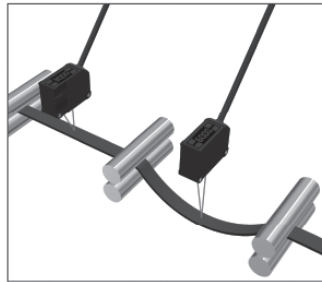
Model	CD22□-□□V□	CD22□-□□A□	CD22□-□□-485□
Type	Voltage output	Current output	RS-485 type
Analog output range	0 ~ 10 V	4 ~ 20 mA	—
Maximum load impedance	—	300 Ω	—
Output impedance	100 Ω	—	—
Power supply	DC18 - 24 V ± 10 %	DC12 - 24 V ± 10 %	—

Applications

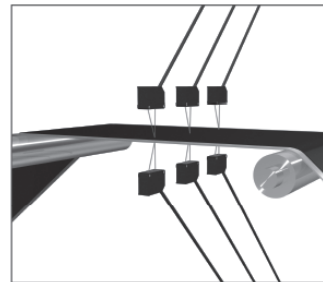
Detecting small parts in a nest



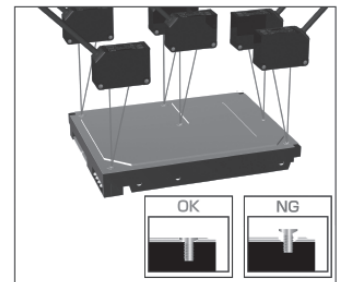
Loop control of rubber extrusion



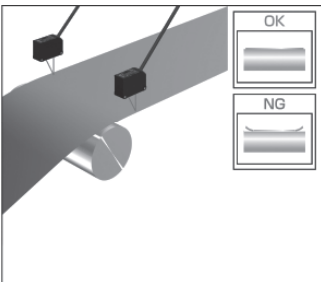
Measuring thickness of thin film electrode



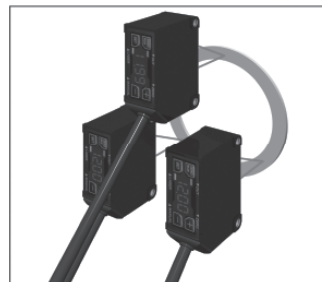
Measuring height of screw tightened



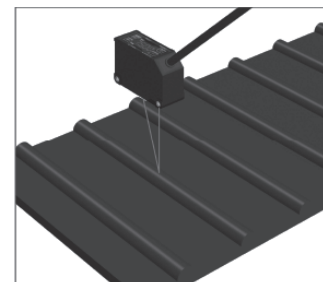
Detecting edge of metal foil rises on the roller



Measuring flatness of metal plate



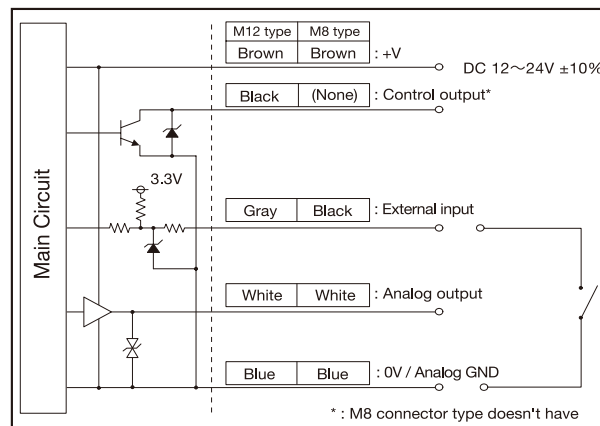
Checking thickness and shape of black rubber



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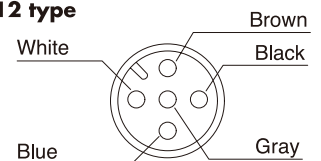
Input and output are "NPN type" or "PNP type" selectable by setting.

NPN type

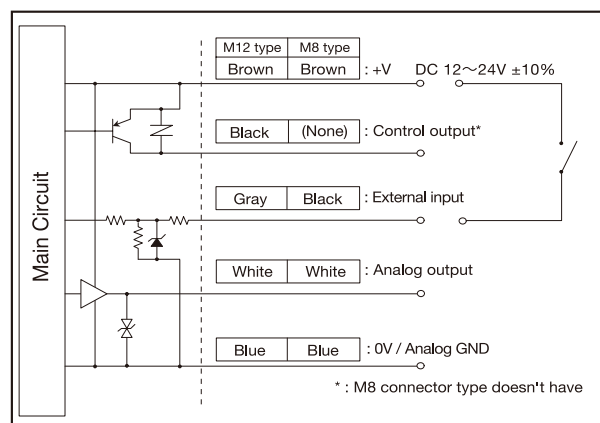


Pin configuration
(sensor side)

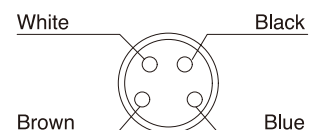
M12 type



PNP type

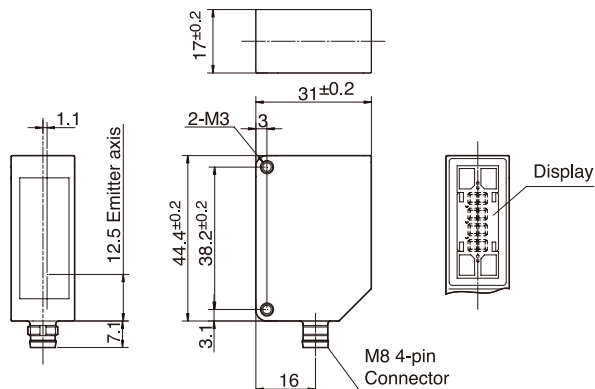


M8 type

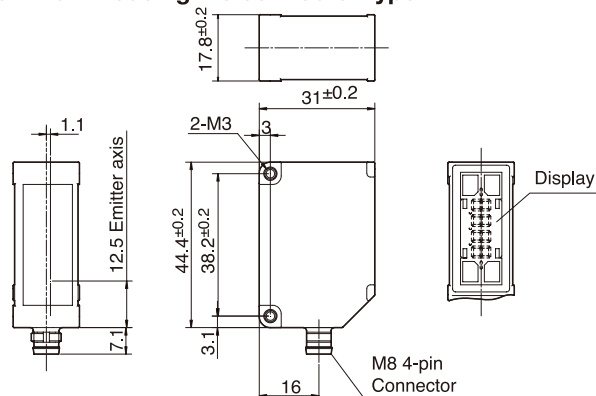


ขนาดและมิติ

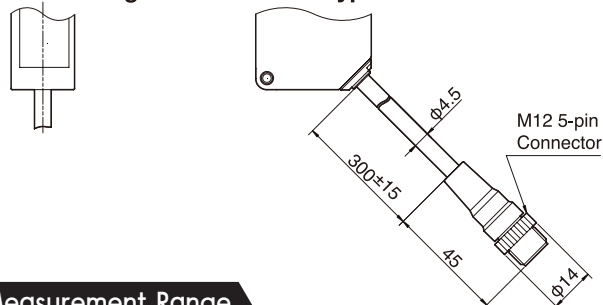
SUS housing M8 connector type



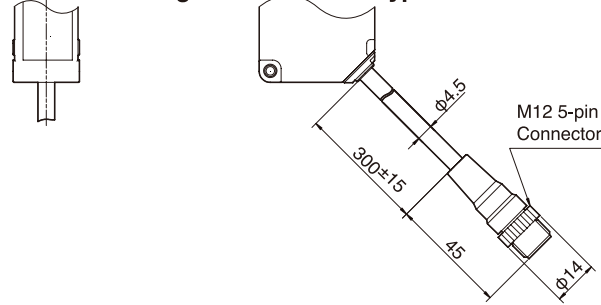
Aluminum housing M8 connector type



SUS housing M12 connector type



Aluminum housing M12 connector type



Measurement Range

Type	Measurement range	Repeatability	Analog output, Serial I/F	Lineup	
				Aluminum housing	SUS housing
Diffuse reflective	 15±5mm	1μm	4~20mA	CD22-15A□	CD22M-15A□
			0~10V	CD22-15V□	CD22M-15V□
			RS-485	CD22-15-485□	CD22M-15-485□
	 35±15mm	6μm	4~20mA	CD22-35A□	CD22M-35A□
			0~10V	CD22-35V□	CD22M-35V□
			RS-485	CD22-35-485□	CD22M-35-485□
	 100±50mm	20μm	4~20mA	CD22-100A□	CD22M-100A□
			0~10V	CD22-100V□	CD22M-100V□
			RS-485	CD22-100-485□	CD22M-100-485□

Options

M12 connector cable



DOL-1205-G02M-R : 2meter
DOL-1205-G05M-R : 5meter

M8 connector cable



JCN-S : 2meter
JCN-5S : 5meter
JCN-10S : 10meter



JCN-L : 2meter
JCN-5L : 5meter
JCN-10L : 10meter

การสั่งซื้อ

Model number legend

