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Sensors

Photoelectric Sensors / Laser Sensors >

Compact Photoelectric Sensor CX-400 Ver.2 >

CX-412-P

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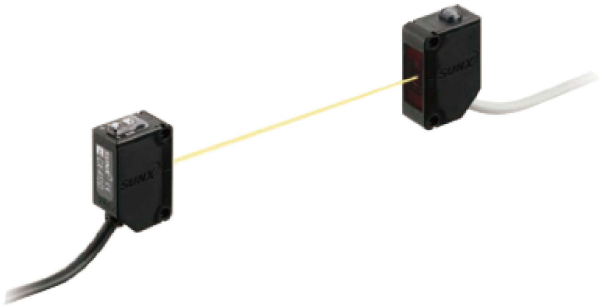
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CX-412-P | Compact Photoelectric Sensor CX-400 Ver.2



\*Photo may vary from actual product.



Product Number	CX-412-P
Part Number	CX-412-P
Product	Compact Photoelectric Sensor



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Technical Inquiries,  
Purchase Support &  
Additional Assistance

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Other inquiry

Details

Thru-beam(Long sensing range)

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Spec  
Detail



Accessories  
(Option)



As of April 26, 2025 (JST)  
\*Specifications and design of the products are subject to change without notice for the product improvement.

Spec Detail

Specifications and design of the products are subject to change without notice for the product improvement.

Item	Specifications
Product Number	CX-412-P
Part Number	CX-412-P
Products Name	Compact Photoelectric Sensor
Product details	Thru-beam(Long sensing range)
The price of the product	Please contact our office



Item		Specifications
		Download
<b>Catalog/ Datasheet</b>		<b>CAD</b>
		<b>Manual</b>
Applicable regulations and certifications		marking (EMC Regulations, RoHS Regulations), UL Recognition Certification
Sensing range		15 m 49.213 ft
Sensing object		Ø12 mm Ø0.472 in or more opaque object (Note) If slit masks (optional) are fitted, an object of Ø0.5 mm Ø0.020 in (using round slit mask) can be detected.
Hysteresis		-
Repeatability(perpendicular to sensing axis)		0.5 mm 0.020 in or less
Supply voltage		12 to 24 V DC plus or minus 10 % Ripple P-P 10 % or less
Current consumption		Emitter: 20 mA or less Receiver: 10 mA or less
Output		PNP open-collector transistor - Maximum source current: 100 mA - Applied voltage: 30 V DC or less (between output and +V) - Residual voltage: 2 V or less (at 100 mA source current), 1 V or less (at 16 mA source current)



Item		Specifications
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Catalog/ Datasheet	CAD	Manual
Output.Short-circuit protection		Incorporated
Response time		1 ms or less
Operation indicator		Orange LED(lights up when the output is ON) (incorporated on the receiver for thru-beam type)
Stability indicator		Green LED(lights up under stable light received condition or stable dark condition) (incorporated on the receiver for thru-beam type)
Power indicator		Green LED(lights up when the power is ON) (incorporated on the emitter)
Sensitivity adjuster		Continuously variable adjuster(incorporated on the receiver for thru-beam type)
Automatic interference prevention function		-
Protection		IP67 (IEC)
Ambient temperature		- 25 to +55°C -13 to +131°C °F (No dew condensation or icing allowed ), Storage: -30 to +70°C -22 to +158°C °F
Ambient humidity		35 to 85 % RH, Storage: 35 to 85 %



Item		Specifications
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		light-receiving face
Voltage withstandability		1,000 V AC for one min. between all supply terminals connected together and enclosure
Insulation resistance		20 MOhm , or more, with 250 V DC megger between all supply terminals connected together and enclosure
Vibration resistance		10 to 500 Hz frequency, 1.5 mm 0.059 in amplitude (10 G max.) in X, Y and Z directions for two hours each
Shock resistance		500 m/s <sup>2</sup> acceleration (50 G approx.) in X, Y and Z directions three times each
Emitting element (modulated)		Infrared LED
Emitting element (modulated):Peak emission wavelength		870 nm 0.034 mil
Material		Enclosure: PBT (polybutylene terephthalate) Lens: acrylic Indicator cover: acrylic
Cable		0.2 mm <sup>2</sup> 3-core (emitter: 2-core) cabtyre cable, 2 m 6.562 ft long



Item		Specifications
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Catalog/ Datasheet	CAD	Manual
		mm <sup>2</sup> , or more, cable (both emitter and receiver).
Weight		Net weight: 95 g approx. Gross weight: 100 g approx.
Accessory		-

Accessories (Option)

	Product number	Part number	Product	D
No image	<a href="#">MS-AJ1</a>	MS-AJ1	-	-
No image	<a href="#">MS-AJ1-A</a>	MS-AJ1-A	-	-
No image	<a href="#">MS-AJ1-M</a>	MS-AJ1-M	-	-
No image	<a href="#">MS-AJ2</a>	MS-AJ2	-	-

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CX-411   Compact Photoelectric Sensor CX-400 Ver.2		

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Potentiometers  
Transparent  
Conductive Film  
Cooling Fan

FA Sensors & Components

Fiber Sensors	Sensor Options	Static Control Devices
Photoelectric Sensors / Laser Sensors	Wire-Saving Systems	Laser Markers / 2D Code Readers
Micro Photoelectric Sensors	Programmable Controllers / Motion Controller	Machine Vision System
Light Curtains / Safety Components	Human Machine Interface	Energy Management Solutions
Area Sensors	Pressure Sensors / Flow Sensors	
Inductive Proximity Sensors	Measurement Sensors	
Particular Use Sensors		

Motors for FA &  
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