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Sensors

Photoelectric Sensors / Laser Sensors >

Compact Photoelectric Sensor CX-400 Ver.2 >

CX-491

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CX-491 | Compact Photoelectric Sensor CX-400 Ver.2



\*Photo may vary from actual product.



Product Number	CX-491
Part Number	CX-491
Product	Compact Photoelectric Sensor



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Technical Inquiries,  
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Additional Assistance

Technical inquiry

Business inquiry

Other inquiry

Details

Retroreflective(With polarizing filters)

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Catalog/  
Datasheet

CAD

Manual

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Technical inquiry

Business inquiry

Other inquiry

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-491
Part Number	CX-491
Products Name	Compact Photoelectric Sensor
Product details	Retroreflective(With polarizing filters)
The price of the product	Please contact our office



Item		Specifications
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Catalog/ Datasheet	CAD	Manual
Applicable regulations and certifications		marking (EMC Regulations, RoHS Regulations), UL Recognition Certification
Sensing range		3 m 9.843 ft (Note) The sensing range and the sensing object of the retroreflective type sensor are specified for the RF-230 reflector. The sensing range represents the actual sensing range of the sensor.
Sensing object		Ø50 mm Ø1.969 in or more opaque, translucent or specular object (Note) The sensing range and the sensing object of the retroreflective type sensor are specified for the RF-230 reflector. The sensing range represents the actual sensing range of the sensor. (Note) Make sure to confirm detection with an actual sensor before use.
Hysteresis		-
Repeatability(perpendicular to sensing axis)		0.5 mm 0.020 in or less
Supply voltage		12 to 24 V DC plus minus 10 % Ripple P-



Item		Specifications
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Catalog/ Datasheet	CAD	Manual
Output	NPN open-collector transistor - Maximum sink current: 100 mA - Applied voltage: 30 V DC or less (between output and 0 V) - Residual voltage: 2 V or less (at 100 mA sink current), 1 V or less (at 16 mA sink current)	
Output:Output operation	Switchable either Light-ON or Dark-ON	
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	-	
Sensitivity adjuster	Continuously variable adjuster(incorporated on the receiver for thru-beam type)	

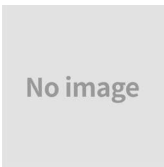
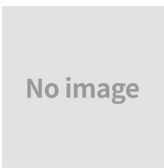



Item		Specifications
		Download
Catalog/ Datasheet	CAD	Manual
		together,
Protection		IP67 (IEC)
Ambient temperature		- 25 to +55°C -13 to +131°C °F (No dew condensation or icing allowed ), Storage: -30 to +70°C -22 to +158°C °F
Ambient humidity		35 to 85 % RH, Storage: 35 to 85 % RH
Ambient illuminance		Incandescent light: 3,000 lx or less at the 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



Item		Specifications
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Catalog/ Datasheet	CAD	Manual
Emission wavelength		
Material		Enclosure: PBT (polybutylene terephthalate) Lens: acrylic Indicator cover: acrylic
Cable		0.2 mm <sup>2</sup> 3-core cabtyre cable, 2 m <a href="#">6.562 ft</a> long
Cable extension		Extension up to total 100 m <a href="#">328.084 ft</a> is possible with 0.3 mm <sup>2</sup> , or more, cable.
Weight		Net weight: 50 g approx. Gross weight: 80 g approx.
Accessory		RF-230 (Reflector): 1 pc.

Accessories (Option)

	Product number	Part number	Product	D
	<a href="#">MS-AJ1</a>	MS-AJ1	-	-
	<a href="#">MS-AJ1-A</a>	MS-AJ1-A	-	-





	Product number	Part number	Product	D
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Catalog/ Datasheet	CAD		Manual	
No image	<a href="#">MS-AJ2</a>	MS-AJ2	-	-

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# Guidelines for Ordering and Usage

Requests to customers (FA Sensors & Components [Excluding motors])

Requests to customers (Dedicated to industrial motors)

## Components & Devices

- Relays / Couplers
- Connectors
- Switches
- Encoders / 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 & Industrial Application

- AC Servo
- Motors for HVAC & Automotive

