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## Sensors

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**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,  
Purchase Support &  
Additional Assistance**

Technical inquiry

Business inquiry

Other inquiry

Details Retroreflective(With polarizing filters)

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**Catalog/  
Datasheet** **CAD** **Manual**

**Contact Us**

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
<p style="text-align: center;"><b>Catalog/ Datasheet</b></p>	<p>Download</p>
	<p><b>CAD</b></p>
<p>Applicable regulations and certifications</p>	<p>marking (EMC Regulations, RoHS Regulations), UL Recognition Certification</p>
<p>Sensing range</p>	<p>3 m <b>9.843 ft</b> (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.</p>
<p>Sensing object</p>	<p>Ø50 mm <b>Ø1.969 in</b> 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.</p>
<p>Hysteresis</p>	<p>-</p>
<p>Repeatability(perpendicular to sensing axis)</p>	<p>0.5 mm <b>0.020 in</b> or less</p>
<p>Supply voltage</p>	<p>12 to 24 V DC pl<sup>+</sup>  minus 10 % Ripple P-</p>



Item		Specifications
		Download
<b>Catalog/ Datasheet</b>	<b>CAD</b>	<b>Manual</b>
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)

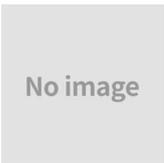
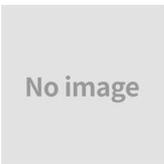


Item	Specifications
<p style="text-align: center;"><b>Catalog/ Datasheet</b></p> <p style="text-align: center;"><b>CAD</b></p>	<p>Download</p> <p style="text-align: center;"><b>Manual</b></p>
	<p>together.</p>
Protection	IP67 (IEC)
Ambient temperature	- 25 to +55°C -13 to +131°C °F (No dew condensation 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
		Download
<b>Catalog/ Datasheet</b>	<b>CAD</b>	<b>Manual</b>
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.
Download				
<b>Catalog/ Datasheet</b>		<b>CAD</b>	<b>Manual</b>	
No image	<a href="#">MS-AJ2</a>	MS-AJ2	-	-

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### Control Components & Electronic Device Products Technical Support

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Relays, Couplers, Connectors, Switches, and Other Control Components & Electronic Device Products

### FA Sensors & Components, Motors Technical Support

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FA Sensors, PLC ,Eco Power Meters, Times, Counters, Limit Switches and Other FA Sensors & Components

### Motors Technical Support

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Motors for FA & Industrial Application, Motors for Appliance & Automotive



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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

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