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- Home
- Products
- Download
- Resource
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- Sales Locations

Panasonic Industry > Automation Controls Top > FA Sensors & Components > Sensors > Photoelectric Sensors / Laser Sensors > CX-491-P

Sensors

Photoelectric Sensors / Laser Sensors

Compact Photoelectric Sensor CX-400 Ver.2

CX-491-P

Fiber Sensors

Light Curtains / Safety Components

Area Sensors

Micro Photoelectric Sensors

Inductive Proximity Sensors

Particular Use Sensors

Sensor Options

Wire-Saving Systems

Configuration examples of IO-Link compatible devices

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

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*Photo may vary from actual product.



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Technical Inquiries,
Purchase Support &
Additional Assistance

Technical inquiry

Business inquiry

Other inquiry

Product Number	CX-491-P
Part Number	CX-491-P
Product	Compact Photoelectric Sensor
Details	Retroreflective(With polarizing filters)
Product Name	Compact Photoelectric Sensor CX-400 Ver.2

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-P
Part Number	CX-491-P
Products Name	Compact Photoelectric Sen



Item	Specifications
Product details	Retroreflective(With polarizing filters)
The price of the product	Please contact our office
Applicable regulations and certifications	CE Marking (EMC Directive, RoHS Directive), UKCA 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.



Item	Specifications
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	13 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)
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)







Item	Specifications
Power indicator	-
Sensitivity adjuster	Continuously variable adjuster(incorporated on the receiver for thru-beam type)
Automatic interference prevention function	Incorporated(Two units of sensors can be mounted close 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, ↑

Item	Specifications
	and Z directions for two hours each
Shock resistance	500 m/s ² acceleration (50 G approx.) in X, Y and Z directions three times each
Emitting element (modulated)	Red LED
Emitting element (modulated):Peak emission wavelength	680 nm 0.027 mil
Material	Enclosure: PBT (polybutylene terephthalate) Lens: acrylic Indicator cover: acrylic
Cable	0.2 mm ² 3-core cabtyre cable, 2 m 6.562 ft long
Cable extension	Extension up to total 100 m 328.084 ft is possible with 0.3 mm ² , 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	Discontinued
	MS-AJ1	MS-AJ1	-	-
	MS-AJ1-A	MS-AJ1-A	-	-
	MS-AJ1-M	MS-AJ1-M	-	-
	MS-AJ2	MS-AJ2	-	-

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CX-400 Ver.2

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**Motors
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CX-491-P - Panasonic

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Requests to customers (Dedicated to industrial motors)

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- 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 | | |

Motors for FA & Industrial Application

- AC Servo
- Motors for HVAC & Automotive



Particular Use
Sensors

Measurement
Sensors

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