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Sensors

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CX-481

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CX-481 | Compact Photoelectric Sensor CX-400 Ver.2



\*Photo may vary from actual product.



Product Number	CX-481
Part Number	CX-481
Product	Compact Photoelectric Sensor



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Details

Retroreflective(For transparent object sensing)

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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-481
Part Number	CX-481
Products Name	Compact Photoelectric Sensor
Product details	Retroreflective(For transparent object sensing)
The price of the product	Please contact our office



Item		Specifications
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Applicable regulations and certifications	Marking (EMC Regulations, RoHS Regulations), UL Recognition Certification	
Sensing range	50 to 500 mm <a href="#">1.969 to 19.685 in</a> (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 <a href="#">Ø1.969 in</a> or more transparent, translucent or opaque 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 <a href="#">0.020 in</a> or less	



Item		Specifications
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Catalog/ Datasheet	CAD	Manual
Current consumption	10 mA or less	
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)	


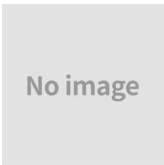
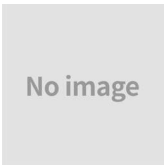


Item		Specifications
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		together.)
Protection		IP67 (IEC)
Ambient temperature		- 25 to +55°C -13 to +131°C °F (No dew condensation or icing allowed ), Storage: -30 to +70°C -22 to +158°C °F
Ambient humidity		35 to 85 % RH, Storage: 35 to 85 % RH
Ambient 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
Emitting element (modulated)		Infrared LED
Emitting element (modulated):Peak emission		870 nm 0.034 mil



Item		Specifications
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<b>Catalog/ Datasheet</b>		<b>CAD</b>
		<b>Manual</b>
Material	terephthalate) Lens: polycarbonate Indicator cover: polycarbonate	
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	Download
	<a href="#">MS-AJ1</a>	MS-AJ1	-	-
	<a href="#">MS-AJ1-A</a>	MS-AJ1-A	-	-
	<a href="#">MS-AJ1-M</a>	MS-AJ1-M	-	-



	Product number	Part number	Product	D.
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- CX-442 | Compact Photoelectric Sensor CX-400 Ver.2 >
- CX-441-P | Compact Photoelectric Sensor CX-400 Ver.2 >

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Application, Motors for  
Appliance & Automot



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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 &  
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