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Sensors

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CX-444-P | Compact Photoelectric Sensor CX-400 Ver.2



*Photo may vary from actual product.



Product Number	CX-444-P
Part Number	CX-444-P
Product	Compact Photoelectric Sensor



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Details

Adjustable range reflective

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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-444-P
Part Number	CX-444-P
Products Name	Compact Photoelectric Sensor
Product details	Adjustable range reflective
The price of the product	Please contact office



Item		Specifications
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Applicable regulations and certifications		marking (LIVE Regulations, RoHS Regulations), UL Recognition Certification
Adjustable range		20 to 100 mm 0.787 to 3.937 in (Note) The adjustable range stands for the maximum sensing range which can be set with the distance adjuster. The sensor can detect an object 2 mm 0.079 in [CX-444(-P): 15 mm 0.591 in , CX-442(-P): 20 mm 0.787 in], or more, away.
Sensing range(with white non-glossy paper)		15 to 100 mm 0.591 to 3.937 in
Hysteresis		2 % or less of operation distance(with white non-glossy paper)
Repeatability		Along sensing axis: 1 mm 0.039 in or less, Perpendicular to sensing axis: 0.2 mm 0.008 in or less (with white non-glossy paper)



Item		Specifications
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Current consumption		20 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 Detection-ON or Detection-OFF
Output:Short-circuit protection		Incorporated
Response time		1 ms or less
Operation indicator		Orange LED (lights up when the output is ON)
Stability indicator		Green LED(lights up under stable operating condition)
Distance adjuster		5-turn mechanical adjuster
Sensing mode		BGS / FGS functions switchable with wiring of sens



Item		Specifications
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Automatic Interference prevention function		(Note) Note that detection may be unstable depending on the mounting conditions or the sensing object. In the state that this product is mounted, be sure to check the operation with the actual sensing object.
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



Item		Specifications
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Catalog/ Datasheet	CAD	Manual
		together and enclosure
Vibration resistance		10 to 500 Hz frequency, 3 mm 0.118 in amplitude in X, Y 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		650 nm 0.026 mil
Spot diameter		Ø9 mm Ø0.354 in approx.(at 100 mm 3.937 in distance)
Material		Enclosure: PBT (Polybutylene terephthalate) Front cover: Polycarbonate Indicator cover: Polycarbonate
Cable		0.2 mm ² 4-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.



Item		Specifications
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		approx.

Accessories (Option)

	Product number	Part number	Product	D
No image	MS-AJ1	MS-AJ1	-	-
No image	MS-AJ1-A	MS-AJ1-A	-	-
No image	MS-AJ1-M	MS-AJ1-M	-	-
No image	MS-AJ2	MS-AJ2	-	-

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Requests to customers (Dedicated to industrial motors)

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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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Application

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