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Sensors

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CX-424 | Compact
Photoelectric Sensor CX-400 Ver.2



*Photo may vary from actual product.



Product Number	CX-424
Part Number	CX-424
Product	Compact Photoelectric Sensor



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Other inquiry

DetailsDiffuse reflective

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Technical inquiryBusiness 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-424
Part Number	CX-424
Products Name	Compact Photoelectric Sensor
Product details	Diffuse reflective
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		100 mm 3.937 in (Note) The sensing range and hysteresis of the diffuse reflective type sensor are specified for white non-glossy paper (200 × 200 mm 7.874 × 7.874 in) as the object.
Sensing object		Opaque, translucent or transparent object (Note) Make sure to confirm detection with an actual sensor before use.
Hysteresis		15 % or less of operation distance (Note) The sensing range and hysteresis of the diffuse reflective type sensor are specified for white non-glossy paper (200 × 200 mm 7.874 × 7.874 in) as the object.
Repeatability(perpendicular to sensing axis)		1 mm 0.039 in or less
Supply voltage		12 to 24 V DC plus or minus 10 % Ripple P-P 10 % or less



Item		Specifications
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Catalog/ Datasheet	CAD	Manual
Output	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)	
Automatic interference prevention function	Incorporated(Two units of sensors	



Item		Specifications
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Catalog/ Datasheet	CAD	Manual
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 ² acceleration (50 G approx.) in X, Y and Z directions three times each
Emitting element (modulated)		Infrared LED



Item		Specifications
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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: 60 g approx.	
Accessory	-	

Accessories (Option)

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



	Product number	Part number	Product	Download
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No image	MS-AJ2	MS-AJ2	-	-

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- CX-423 | Compact Photoelectric Sensor CX-400 Ver.2 >
- CX-422-P | Compact Photoelectric Sensor CX-400 Ver.2 >
- CX-422 | Compact Photoelectric Sensor CX-400 Ver.2 >
- CX-421-P | Compact Photoelectric Sensor CX-400 Ver.2 >

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Control Components & Electronic Device Products

FA Sensors & Components, Motors

Motors Technical Support

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- 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 | | |

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Particular Use
Sensors

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