

Search Automation Controls 🔍

- Home
- Products
- Download
- Resource
- Support
- Sales Locations

Panasonic Industry > Automation Controls Top > FA Sensors & Components > Sensors > Photoelectric Sensors / Laser Sensors > CX-423

Sensors

Photoelectric Sensors / Laser Sensors >

Compact Photoelectric Sensor CX-400 Ver.2 >

CX-423

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-423 | Compact
Photoelectric Sensor CX-400 Ver.2



*Photo may vary from actual product.



Product Number	CX-423
Part Number	CX-423
Product	Compact Photoelectric Sensor



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Technical inquiry

Business inquiry

Other inquiry

DetailsDiffuse reflective(Narrow-view)

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Catalog/
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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-423
Part Number	CX-423
Products Name	Compact Photoelectric Sensor
Product details	Diffuse reflective(Narrow- view)
The price of the product	Please contact our office



Item		Specifications
		Download
Catalog/ Datasheet	CAD	Manual
Applicable regulations and certifications		marking (EMC Regulations, RoHS Regulations), UL Recognition Certification
Sensing range		70 to 300 mm 2.756 to 11.811 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(Min. sensing object: Ø0.5 mm Ø0.020 in copper wire) (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)		0.5 mm 0.020 in or less



Item		Specifications
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Catalog/ Datasheet	CAD	Manual
Current consumption		15 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		-



Item		Specifications
		Download
Catalog/ Datasheet	CAD	Manual
		and 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, Y and Z directions for two hours each



Item		Specifications
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		three times each
Emitting element (modulated)		Red LED
Emitting element (modulated):Peak emission wavelength		645 nm 0.025 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: 60 g approx.
Accessory		-

Accessories (Option)

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



	Product number	Part number	Product	D
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Catalog/ Datasheet	CAD		Manual	
No image	MS-AJ1-M	MS-AJ1-M	-	-
No image	MS-AJ2	MS-AJ2	-	-

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- CX-421-P | Compact Photoelectric Sensor CX-400 Ver.2>
- CX-421 | Compact Photoelectric Sensor CX-400 Ver.2>
- CX-412-P | Compact Photoelectric Sensor CX-400 Ver.2>

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Requests to customers (Dedicated to industrial motors)

Components & Devices

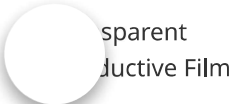
Relays / Couplers
Connectors
Switches
Encoders / Potentiometers

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

Motors for FA & Industrial Application

AC Servo
Motors for HVAC & Automotive



Cooling Fan

Light Curtains /
Safety
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Inductive
Proximity
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