

CX-421 | Compact Photoelectric Sensor CX-400 Ver.2



*Photo may vary from actual product.

RoHS compliant

Product Number	CX-421
Part Number	CX-421
Product	Compact Photoelectric Sensor
Details	Diffuse reflective
Product name	Compact Photoelectric Sensor CX-400 Ver.2

Spec Detail

As of June 03, 2024

Specifications and design of the products are subject to change without notice for the product improvement.

Item		Specifications
Product Number	CX-421	
Part Number	CX-421	
Applicable regulations and certifications		CE Marking (EMC Directive, RoHS Directive), UKCA Marking (EMC Regulations, RoHS Regulations)
Sensing range		300 mm 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 (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
Current consumption		13 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)
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
Shock resistance	500 m/s ² acceleration (50 G approx.) in X, Y and Z directions three times each
Emitting element (modulated)	Infrared LED
Emitting element (modulated):Peak emission wavelength	860 nm 0.034 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



Product Number **MS-AJ1**

Part Number **MS-AJ1**

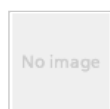
Product name **Universal Sensor Mounting Stand MS-AJ**



Product Number **MS-AJ1-A**

Part Number **MS-AJ1-A**

Product name **Universal Sensor Mounting Stand MS-AJ**



Product Number **MS-AJ1-M**

Part Number **MS-AJ1-M**

Product name **Universal Sensor Mounting Stand MS-AJ**



Product Number **MS-AJ2**

Part Number **MS-AJ2**

Product name **Universal Sensor Mounting Stand MS-AJ**



Product Number **MS-AJ2-A**

Part Number **MS-AJ2-A**

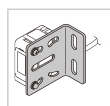
Product name **Universal Sensor Mounting Stand MS-AJ**



Product Number **MS-AJ2-M**

Part Number **MS-AJ2-M**

Product name **Universal Sensor Mounting Stand MS-AJ**



Product Number **MS-CX-3**

Part Number **MS-CX-3**

Product **Sensor head mounting bracket**

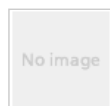
Product name **Mounting bracket**



Product Number **MS-CX2-1**

Part Number **MS-CX2-1**

Product name **Mounting bracket**



Product Number **MS-CX2-2**

Part Number **MS-CX2-2**

Product name **Mounting bracket**



Product
Number **MS-CX2-4**

Part Number **MS-CX2-4**

Product
name **Mounting bracket**



Product
Number **MS-CX2-5**

Part Number **MS-CX2-5**

Product
name **Mounting bracket**