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Sensors

Photoelectric Sensors / Laser Sensors

CMOS type Micro Laser Distance Sensor HG-C

HG-C1100-P

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

HG-C1100-P | CMOS type
Micro Laser Distance
Sensor HG-C

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Catalog/
Datasheet CAD Manual



*Photo may vary from actual product.



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Contact Us

Technical Inquiries,
Purchase Support &
Additional Assistance

Technical inquiry

Business inquiry

Other inquiry

Product Number	HG-C1100-P
Part Number	HG-C1100-P
Product	CMOS type Micro Laser Distance Sensor
Details	Measurement center 100mm 3.937 in type
Product Name	CMOS type Micro Laser Distance Sensor HG-C

Contact Us

Technical inquiry

Business 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	HG-C1100-P
Part Number	HG-C1100-P
Products Name	CMOS type Micro Laser Distance Sensor



Item	Specifications
Product details	Measurement center 100mm 3.937 in type
The price of the product	Please contact our office
Applicable regulations and certifications	CE Marking (EMC Directive, RoHS Directive), UKCA Marking (EMC Regulations, RoHS Regulations), FDA Regulations, UL/c-UL Certification (Note) : The UL/c-UL certified products have been shipped since April, 2017.
Measurement center distance	100mm 3.937 in
Measuring range	±35mm 1.328 in
Repeatability	70 μm 2.756 mil
Linearity	±0.1%F.S.
Temprerature characteristics	0.03% F.S. /°C
Light source	Red semiconductor laser Class 2 (IEC / EN/ JIS / GB / KS / FDA) / Class II (FDA)(Note) Max. output: 1mW emission peak wavelength: 655nm 0.026 mil (Note) This product complies with the FDA regulations (FDA 21 CFR 1040.10 and 1040.11) in



Item	Specifications
	accordance with FDA Laser Notice No. 56, except for complying with IEC 60825-1 Ed. 3.
Beam diameter	$\varnothing 120\text{ }\mu\text{m}$ 4.7241 mil approx. (Note) This is the size in the measurement center distance. These values were defined by using 1 / e^2 (13.5% approx.) of the center light intensity. Due to leak light outside the specified area, the reflectance around the detecting point may be higher than at the point and this may affect the measurement value.
Supply voltage	12 to 24V DCplus or minus 10% Ripple P-P 10%
Current consumption	40 mA or less (at 24V DC supply voltage) 65 mA or less (at 12V DC supply voltage) Note : Specifications have been changed from shipment in August, 2016. For shipment before July 2016 : 40 or less (at 24 V



Item	Specifications
	supply voltage), 60 mA or less (at 12 V DC supply voltage)
Control output	PNP open-collector transistor - Maximum source current: 50mA - Applied voltage: 30V DC or less (Between control output to +V) - Residual voltage: 1.5V or less (At 50mA source current) - Leakage current: 0.1 mA or less
Control output:Output operation	Either Light-ON or Dark-ON
Control output:Short-circuit protection	Incorporated (Auto reset type)
Analogue output : Analog voltage output	<ul style="list-style-type: none"> • Output range: 0 to 5 V (at alarm: +5.2 V) • Output impedance: 100Ω
Analogue output : Analog current output	<ul style="list-style-type: none"> • Output range: 4 to 20mA (at alarm: 0mA) • Output impedance: 300Ω or less Note : Analog current output has been added from shipment in August 2016.
Response time	Switchable between 1.5 ms / 5 ms / 10 ms <div>↑</div>

Item	Specifications
External input	PNP non-contact input - Input conditions Invalid: 0 to +0.6V DC or Open Valid: +4 to +V DC - Input impedance: 10kΩ approx.
Pollution degree	2
Operating altitude	2,000 m 6561.680 ft or less
Protection	IP67 (IEC)
Ambient temperature	-10 to +45 °C -14 to 113 °F (No dew condensation or icing allowed), Storage: -20 to +60 °C -4 to 140 °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
Vibration resistance	10 to 55 Hz (period: 1 min.) frequency, 1.5 mm 0.059 in double 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



Item	Specifications
Cable	5-core composite cable, 2 m 6.5617 ft long
Cable extension	Extension up to total 10 m 393.701 ft is possible with 0.3 mm ² , or more, cable.
Material	Enclosure: Aluminum die-cast Front cover: Acrylic
Weight	Net weight: 35 g approx. (without cable), 85 g approx. (including cable)

Accessories (Option)

	Product number	Part number	Product	D
<div>No image</div>	MS-HG-01	MS-HG-01	-	-

Recently checked products

Recently checked product numbers

- HG-C1050-P | CMOS type Micro Laser Distance Sensor HG-C

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- HG-C1030-P | CMOS type Micro Laser Distance Sensor HG-C

>
- GX-F8B-P | Rectangular-shaped Inductive Proximity Sensor GX-F/H

>



GX-F8B | Rectangular-shaped Inductive
Proximity Sensor GX-F/H >

GX-F8A-P | Rectangular-shaped
Inductive Proximity Sensor GX-F/H >

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Guidelines for Ordering and Usage

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Requests to customers (Dedicated to industrial motors)



Components & Devices

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Transparent Conductive Film
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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		

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