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Search Automation Controls 🔍

Home   Products   Download   Resource   Support   Sales Locations

Panasonic Industry > Automation Controls Top > FA Sensors & Components > Sensors > Photoelectric Sensors / Laser Sensors > HG-C1200-P

Sensors

Photoelectric Sensors / Laser Sensors ›

   CMOS type Micro Laser Distance Sensor HG-C ›

      HG-C1200-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-C1200-P │ CMOS type Micro Laser Distance Sensor HG-C

*Photo may vary from actual product.

RoHS compliant ?

...uct Number	HG-C1200-P
...t Number	HG-C1200-P
...Product	CMOS type Micro Laser Distance Sensor

Details Measurement center 200mm 7.874 in type

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Catalog/ Datasheet	CAD	Manual

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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-C1200-P
Part Number	HG-C1200-P
Products Name	CMOS type Micro Laser Distance Sensor
Product details	Measurement center 200mm 7.874 in type

Item	Specifications

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Catalog/ Datasheet	**CAD**	**Manual**

Item	Specifications
Applicable regulations and certifications	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	200 mm 7.874 in
Measuring range	±80 mm 3.150 in
Repeatability	200 µm 7.874 mil
Linearity	±0.2%F.S.
Temprerature characteristics	0.03% F.S./°C
Light source	Red semiconductor laser Class 2 [IEC / EN/ JIS / GB / KS / FDA (Note)] Max. output: 1 mW emission peak wavelength: 655 nm 0.026 mil (Note) This product complies with the FDA regulations (FDA 21 CFR 1040.10 and 1040.11) in accordance with FDA Laser Notice No. 56, except for complying with IEC 60825-1 Ed. 3.
Beam diameter	ø300 µm 11.81 mil approx.

Item	Specifications

Catalog/ Datasheet	CAD	Manual
		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 24 V DC ±10 %, Ripple P-P 10 % or less
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 mA or less (at 24 V DC supply voltage), 60 mA or less (at 12 V DC supply voltage)
Control output		PNP open-collector transistor - Maximum so current: 50 mA

Item	Specifications
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Catalog/ Datasheet	CAD	Manual

	- Residual voltage: 1.5 V or less (At 50 mA 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	• Output range: 0 to 5 V (at alarm: +5.2 V) • Output impedance: 100Ω
Analogue output : Analog current output	• 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
External input	PNP non-contact input - Input conditions Invalid: 0 to +0.6 V DC or Open Valid: +4 to +V DC - Input impedance: 10 kΩ approx.

Item	Specifications

	ft or less
Protection	IP67 (IEC)
Ambient temperature	-10 to +45 ℃ -14 to 113 °F (No dew condensation or icing allowed), Storage: -20 to +60 ℃ -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
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 m cable.

Item	Specifications		
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Catalog/ Datasheet	CAD	Manual	
Weight	Net weight: 35 g approx. (without cable), 85 g approx. (including cable)		

Accessories (Option)

	Product number	Part number	Product	D
No image	MS-HG-01	MS-HG-01	-	-

Recently checked products

Recently checked product numbers

HG-C1100-P │ CMOS type Micro Laser Distance Sensor HG-C   >

HG-C1050-P │ CMOS type Micro Laser Distance Sensor HG-C   >

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   >

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