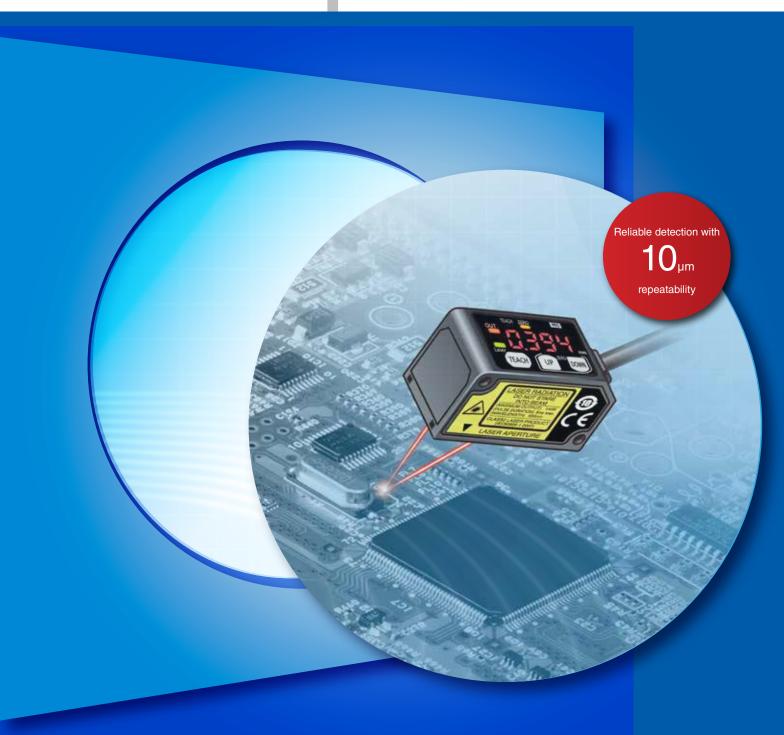
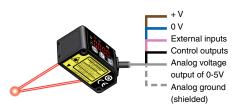
# **Panasonic**

## MICRO LASER DISTANCE SENSOR HG-C SERIES

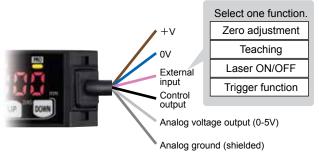


#### Equipped with 0-5V analog output



The sensor not only indicates measured values in mm, but also outputs analog voltage. The data can be used for various calculations and storage (logging) when the output is sent to a PLC + analog unit.

### Configurable external input



The external input can be configured to perform one of four functions: zero adjustment, teaching, Laser ON/OFF, trigger function selection.

Measurement center distance: 100mm Measuring range: ±35mm Beam diameter: approx. 120μm Repeatability: 70μm

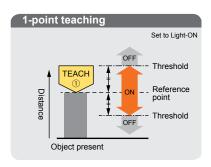
100mm

Measurement center distance: 50mm Measuring range: ±15mm Beam diameter: approx. 70µm Repeatability: 30µm

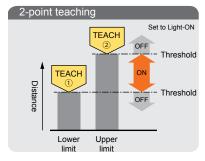
Measurement center distance: 30mm Measuring range: ±5mm Beam diameter: approx. 50µm Repeatability: 10µm



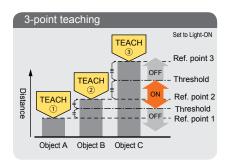
#### Teaching & window comparator mode



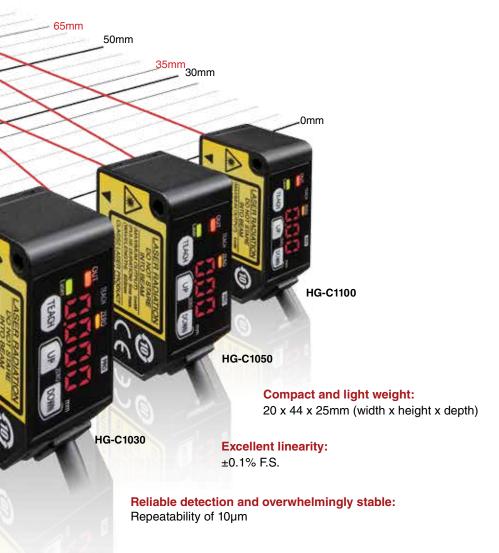
Perform 1-point teaching and the threshold range is set for the distance from the reference surface of the object to be detected.

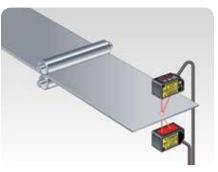


Press the button TEACH once for the lower (first point) and once for the upper limit (second point). This is useful for detecting objects at different distances.



This is the method to set the threshold range by conducting the teaching at 3 points (detecting object A, B and C). After teaching, the reference points are automatically sorted in ascending order (reference point 1, 2 and 3). The thresholds are set at the midpoints between reference point 1 and 2, and 2 and 3, respectively. This is useful for detecting objects at different distances.

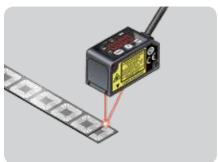




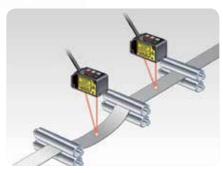
Measuring the thickness of a panel



Controlling the dispenser head height



Checking for overlapped lead frames



Measuring the hoop slack



Checking for presence of O ring



Controlling the height of a robot

### Specifications

NPN output		HG-C1030	HG-C1050	HG-C1100
PNP output		HG-C1030-P	HG-C1050-P	HG-C1100-P
Applicable standards		Conforming to EMC Directive and FDA Standard		
Measurement center distance		30mm	50mm	100mm
Measuring range		±5mm	±15mm	±35mm
Repeatability		10µm	30µm	70μm
Linearity		±0.1% F.S.		
Beam diameter		Approx. 50µm	Approx. 70µm	Approx. 120µm
Supply voltage		12 to 24V DC ±10% including ripple max. 10% (P-P)		
Control output		PNP or NPN open-collector transistor		
	Output operation	Either Light-ON or Dark-ON		
	Short-circuit protection		Incorporated (auto-reset)	
Analog output		Voltage output: 0 to 5V (at alarm: +5.2V) Output impedance: 100Ω		
Response time		Switchable between high speed (1.5ms), standard (5ms), and high precision (10ms)		
Degree of protection		IP67 (IEC)		
Ambient temperature		-10 to +45°C (no dew condensation or icing allowed), storage: -20 to +60°C		
Ambient humidity		35 to 85% RH, storage: 35 to 85% RH		
Ambient illumination		3000ℓx max. (illumination level of light receiving surface under incandescent light)		
Cable		5-core cable, 2m long		
Material		Casing: aluminum die-cast, front cover: acrylic		

You would like to receive a feasibility study or an offer? Please contact us:

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