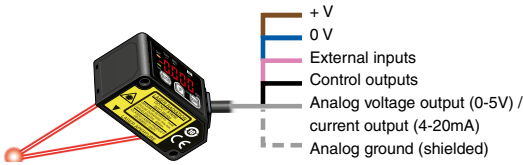


Micro Laser Distance Sensor
HG-C SERIES

Large measuring
range:
25-600mm

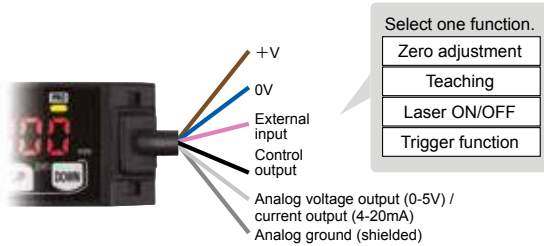


Analog voltage output (0-5V) / current output (4-20mA)

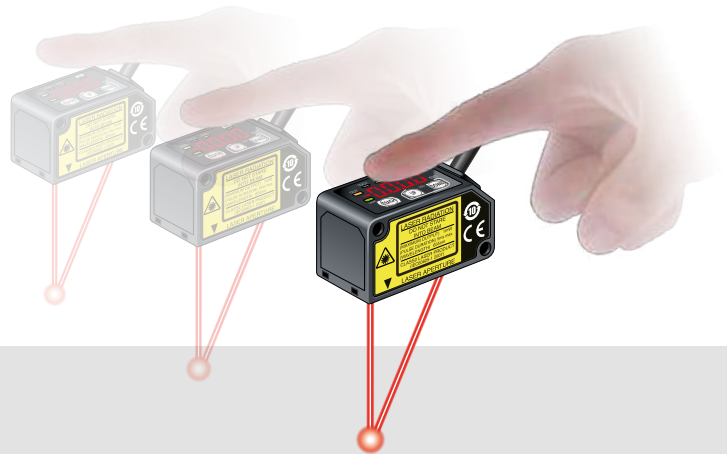
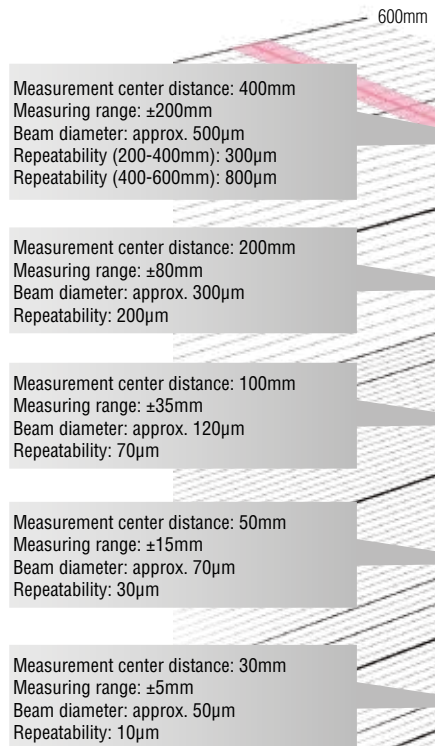


The sensor not only indicates measured values in mm, but also outputs analog voltage / current. The data can be used for various calculations and storage (logging) when the output is sent to a PLC + analog unit.

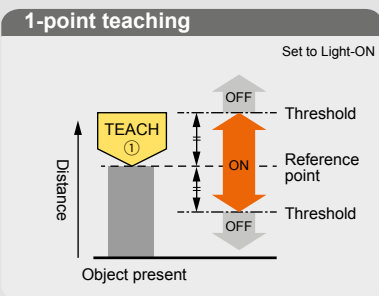
Configurable external input



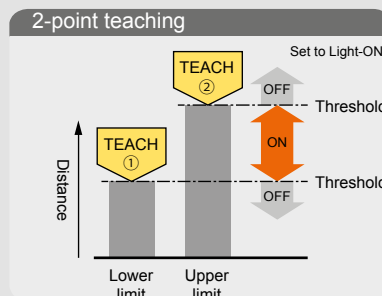
The external input can be configured to perform one of four functions: zero adjustment, teaching, Laser ON/OFF, trigger function selection.



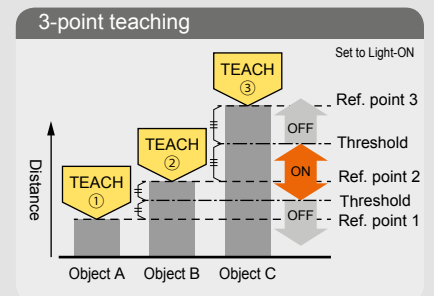
Teaching & window comparator mode



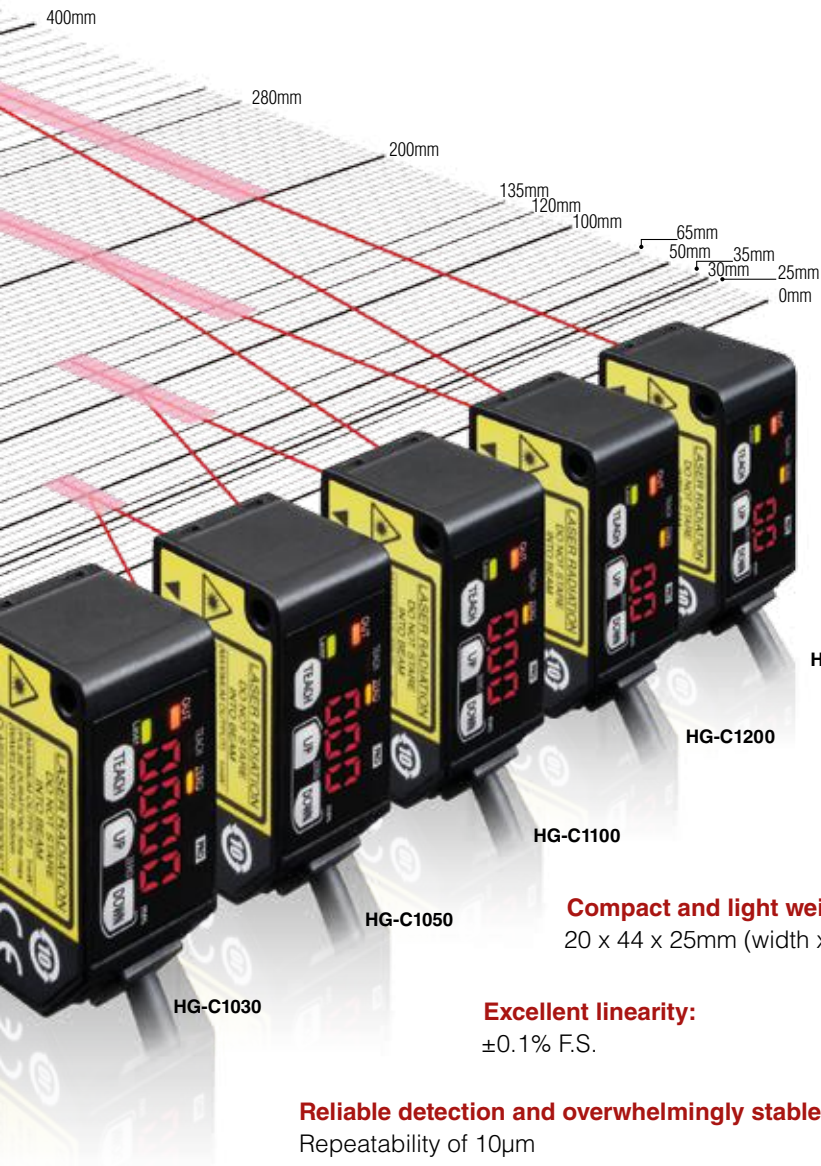
Perform 1-point teaching and the threshold range is set for the distance from the reference surface of the object to be detected.



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.



HG-C1400

HG-C1200

HG-C1100

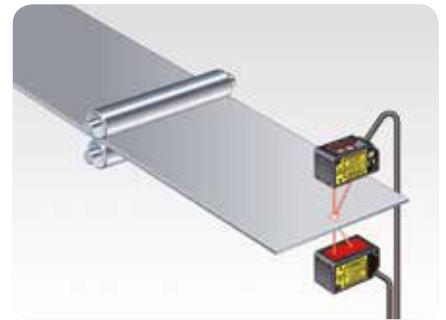
HG-C1050

HG-C1030

Compact and light weight:
20 x 44 x 25mm (width x height x depth)

Excellent linearity:
 $\pm 0.1\%$ F.S.

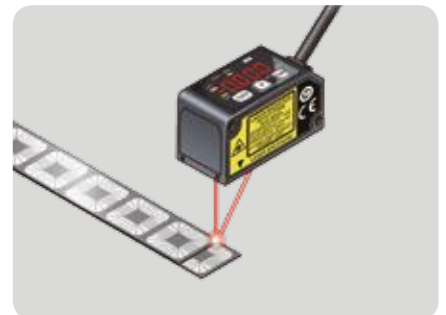
Reliable detection and overwhelmingly stable:
Repeatability of 10 μ m



Measuring the thickness of a panel



Controlling the dispenser head height



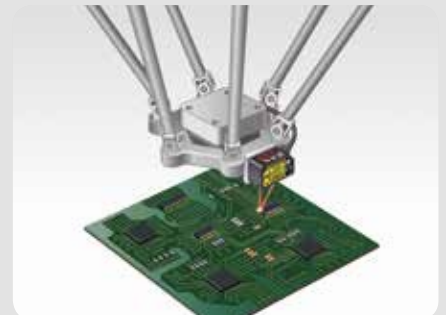
Checking for overlapped lead frames



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 | HG-C1200 | HG-C1400 |
|-----------------------------|---|--------------|---------------|---------------|--|
| PNP output | HG-C1030-P | HG-C1050-P | HG-C1100-P | HG-C1200-P | HG-C1400-P |
| Applicable standards | Conforming to EMC Directive and FDA Standard | | | | |
| Measurement center distance | 30mm | 50mm | 100mm | 200mm | 400mm |
| Measuring range | ±5mm | ±15mm | ±35mm | ±80mm | ±200mm |
| Repeatability | 10µm | 30µm | 70µm | 200µm | 300µm (200-400mm) 800µm (400-600mm) |
| Linearity | ±0.1% F.S. | | | ±0.2% F.S. | ±0.2% F.S. (200-400mm) ±0.3% F.S. (400-600mm) |
| Beam diameter | Approx. 50µm | Approx. 70µm | Approx. 120µm | Approx. 300µm | Approx. 500µm |
| 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 Current output: 4 to 20mA (at alarm: 0mA) / Load impedance: 300Ω or less Switchable via settings | | | | |
| 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?
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