

The LX-100 mark sensor detects any marking or colour, the sensor is equipped with red, green and blue LED. In addition, it utilises a coaxial reflective optics system to realise high precision sensing when used with 1/4000 resolution 12-bit A/D converter.

type	supply voltage	diffused	retro-reflective	polysens retro	through-beam	sensing distance (mm)	PNP	NPN	light-on	dark-on	connector
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**LX-100 series mark/colour sensor**      **12 - 24 VDC**      *can detect any mark*

- Sensing: 3 LEDs: red, green, blue
- Sensing modes: 2 (selectable): Mark mode and Colour mode
- Sensitivity: 2-level teaching/Limit teaching - Mark / 1-level teaching - colour
- LED indication: 4-digit red LED display and various LED indicators
- Dimensions: 35 x 24 x 57 mm

**Mark/Color sensor**      M12 - 4-pin connector (supplied separately)

**LX-101-P-Z**      12 - 24 VDC      digital mark detector      

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      M12 plug

**Accessories for above mark sensor**

<b>Cable and connectors</b>		IP67/68		
<b>SGN01021-373</b>	M12	4 pin	assembly connector with screw terminals	straight
<b>SGN01024-373</b>	M12	4 pin	assembly connector with screw terminals	90° angled
<b>SGN01005-373</b>	M12	4 pin	PUR cable and connector (2 meters)	straight
<b>SGN01006-373</b>	M12	4 pin	PUR cable and connector (5 meters)	straight
<b>SGN01007-373</b>	M12	4 pin	PUR cable and connector (2 meters)	90° angled
<b>SGN01008-373</b>	M12	4 pin	PUR cable and connector (5 meters)	90° angled
<b>MSLX1</b>			metallic (side mount) mounting bracket for above	LX-101

**Laser sensors**

**Miniature laser sensor**

Due to the customised IC and optical design, high precision detection is fulfilled with directivity and visibility achievable only by laser. Class 1 (IEC / JIS / FDA) laser is safe to use, no need to separate the area of sensor usage.

- EX-L200 series laser sensor**      **12 - 24 VDC**      **minute object detection**
- Sensing: Minute object detection (high precision - high accuracy)
  - Easy beam-axis alignment: Visible beam
  - Sensitivity: Adjustable (to eliminate background detection)
  - Supply protection: Short-Circuit / inverse polarity protection
  - LED indication: Orange and green LED indicators
  - Dimensions: 29.9 x 8.2 x 13 mm

**Laser sensor (ultra compact) - amplifier integrated**

**Spot reflective type (Ø1 mm at a sensing distance of 300 mm)**

– Minimum sensing object - 0.01 mm

**EX-L221-P**      12 - 24 VDC      

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      300      

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      cable

**Thru-beam**      supplied as a set with transmitter and receiver

– Minimum sensing object - 0.03 mm

**EX-L211-P**      12 - 24 VDC      

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      1 met      

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      cable

Note NPN available on request (remove "-P" from the part number)

**MS-EX20-1**      L shaped metallic mounting bracket for sensor      EX-L2...

**HG-C micro laser distance/measurement sensor (with built-in amplifier)**

HG-C measurement sensors measure and indicate measured values in mm as well as analog voltage outputs. The data can be used for various calculations and storage (logging) when the output is sent to a PLC + analog unit.

- Reliable detection in 10 µm precision (for HG-C1030)
- Indicates real measurements
- Equipped with 0-5V analog output
- Dimensions: 44 x 20 x 25 mm

type	supply voltage	repeatability	measurement center distance (mm)	measurement range	PNP	NPN	connector
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<b>HG-C1030-P</b>	12 - 24 VDC	10 µm	30	±5	•	□	cable
<b>HG-C1050-P</b>	12 - 24 VDC	30 µm	50	±15	•	□	cable
<b>HG-C1100-P</b>	12 - 24 VDC	70 µm	100	±35	•	□	cable
<b>HG-C1200-P</b>	12 - 24 VDC	200 µm	200	±80	•	□	cable
<b>HG-C1400-P</b>	12 - 24 VDC	300 µm	400	±200	•	□	cable

Note NPN available on request (remove "-P" from the part number)



LX-101-P-Z



EX-L221-P



HG-C1050-P