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## Sensors

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LX-101

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# LX-101 | Digital Mark Sensor LX-100



\*Photo may vary from actual product.



Product Number	LX-101
Part Number	LX-101
Product	Digital Mark Sensor
Details	Cable type



**Contact Us**

**Technical Inquiries,  
Purchase Support &  
Additional Assistance**

Technical inquiry

Business inquiry

Other inquiry

Product Name		Digital Mark Sensor LX-100	
		Download	
<b>Catalog/ Datasheet</b>	<b>CAD</b>	<b>Manual</b>	
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	LX-101
Part Number	LX-101
Products Name	Digital Mark Sensor
Product details	Cable type
The price of the product	Please contact our office
Applicable regulations	EMC Directive, RoHS Directive



Item		Specifications
		Download
<b>Catalog/ Datasheet</b>	<b>CAD</b>	<b>Manual</b>
Spot size		1.8 mm 0.071 in 0.197 in (at 10 mm 0.394 in setting distance)
Supply voltage		12 to 24 V DC ± 10 % Ripple P-P 10 % or less
Current consumption		Normal mode: 750 mW or less(Current consumption 30 mA or less at 24 V supply voltage) ECO mode: 600 mW or less(Current consumption 25 mA or less at 24 V supply voltage)
Output 1(OUT)		NPN open- collector transistor - Maximum sink current: 50 mA - Applied voltage: 30 V DC or less (between output and 0 V) - Residual voltage: 1.5 V or less (at 50 mA sink current)
Output 1:Short-circuit protection		Incorporated
Output 1:Output operation		Mark mode: Light- ON / Dark-ON (Auto-setting on teaching) Color mode: Consistent-ON / Inconsistent-C



Item		Specifications
		Download
<b>Catalog/ Datasheet</b>	<b>CAD</b>	<b>Manual</b>
Output 2(OUT)		collector transistor - Maximum sink current: 50 mA - Applied voltage: 30 V DC or less (between output and 0 V) - Residual voltage: 1.5 V or less (at 50 mA sink current)
Output 2:Short-circuit protection		Incorporated
Output 2:Output operation		Inverted operation of the output 1
Response time		Mark mode: 45 micro s or less Color mode: 150 micro s or less
Teaching input		NPN non-contact input - Signal condition: High... +5 V to +V, or open, Low... 0 to +2 V (source current: 0.5 mA or less) - Input impedance: 10 kOhm approx.
Digital display		4-digit red LED display
Sensitivity setting		Mark mode: 2-level teaching / Full-auto teaching Color mode: 1-level teaching
Fine sensitivity adjustment function		Incorporated 

Item	Specifications
<p style="text-align: center;"><b>Catalog/ Datasheet</b></p> <p style="text-align: center;"><b>CAD</b></p>	<p>Download</p> <p style="text-align: center;"><b>Manual</b></p>
	<p>Switchable timer effective or ineffective (Timer period: 1 to 500 ms, 9 levels variable)</p>
<p style="text-align: center;">Protection</p>	<p>IP67 (IEC)</p>
<p style="text-align: center;">Ambient temperature</p>	<p>-10 to +55 °C <b>+14 to +131 °F</b> (No dew condensation or icing allowed), Storage: -20 to +70 °C <b>-4 to +158 °F</b></p>
<p style="text-align: center;">Ambient humidity</p>	<p>35 to 85 % RH, Storage: 35 to 85 % RH</p>
<p style="text-align: center;">Ambient illuminance</p>	<p>Incandescent light: 3,000 lx or less at the light-receiving face</p>
<p style="text-align: center;">Voltage withstandability</p>	<p>1,000 V AC for one min. between all supply terminals connected together and enclosure</p>
<p style="text-align: center;">Vibration resistance</p>	<p>10 to 500 Hz frequency, 3 mm double amplitude or maximum acceleration 196 m/s<sup>2</sup> in X, Y, and Z direction for 2 hours each</p>
<p style="text-align: center;">Shock resistance</p>	<p>500 m/s<sup>2</sup> acceleration (5 approx.) in X, Y and</p>



Item	Specifications
<p style="text-align: center;"><b>Catalog/ Datasheet</b></p> <p style="text-align: center;"><b>CAD</b></p>	<p>Download</p> <p style="text-align: center;"><b>Manual</b></p>
	<p style="text-align: center;">Emitting element</p> <p>Green / Blue LEDs (Peak emission wavelength: 640 nm <a href="#">0.025 mil</a> / 525 nm <a href="#">0.021 mil</a> / 470 nm <a href="#">0.019 mil</a>)</p>
<p style="text-align: center;">Material</p>	<p>Enclosure: PBT Display cover: Polycarbonate Operation buttons: Silicone rubber Lens: Glass Lens holder: Aluminum</p>
<p style="text-align: center;">Cable</p>	<p>0.34 mm<sup>2</sup> 5-core cabtyre cable, 2 m <a href="#">6.562 ft</a> long</p>
<p style="text-align: center;">Cable extension</p>	<p>Extension up to total 100 m <a href="#">328.084 ft</a> is possible with 0.3 mm<sup>2</sup>, or more, cable.</p>
<p style="text-align: center;">Weight</p>	<p>Net weight: 120 g approx Gross weight: 180 g approx</p>
<p style="text-align: center;">Accessory</p>	<p>M4 (length 30 mm <a href="#">1.181 in</a>) screw with washers: 2 pcs.</p>

## Accessories (Option)



	Product number	Part number	Product	Download
Catalog/ Datasheet	CAD	Manual		
No image	<a href="#">MS-LX-2</a>	MS-LX-2	-	-

### Recently checked products

### Recently checked product numbers

- HG-C1200-P | CMOS type Micro Laser Distance Sensor HG-C >
- 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 >

## Contact Us



**Control Components & Electronic Device Products Technical Support**

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Relays, Couplers, Connectors, Switches, and Other Control Components & Electronic Device Products

**Contact Us**

**Catalog/ Datasheet**

**Technical Support**

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FA Sensors, PLC ,Eco Power Meters, Times, Counters, Limit Switches and Other FA Sensors & Components

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**CAD**      **Manual**

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Motors for FA & Industrial Application, Motors for Appliance & Automotive

**Contact Us**

## Guidelines for Ordering and Usage

Requests to customers (FA Sensors & Components [Excluding motors])

Requests to customers (Dedicated to industrial motors)

### Components & Devices

- Relays / Couplers
- Connectors
- Switches
- Encoders / Positioners

### 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           |

### Motors for FA & Industrial Application

- AC Servo
- Motors for HVAC & Automotive



Transparent  
Conductive Film  
Cooling Fan

Light Curtains /  
Safety  
Components  
Area Sensors  
Inductive  
Proximity  
Sensors  
Particular Use  
Sensors

Human  
Machine

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Management

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**Catalog/  
Datasheet**

**CAD**

**Manual**

Measurement  
Sensors

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