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Sensors

Photoelectric Sensors / Laser Sensors

Digital Mark Sensor LX-100

LX-101

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

LX-101 | Digital Mark Sensor LX-100



*Photo may vary from actual product.



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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

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Catalog/
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CAD

Manual

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
Catalog/ Datasheet	CAD	Manual
Spot size	1 x 3 mm 0.039 x 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
Catalog/ Datasheet	CAD	Manual
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
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Catalog/ Datasheet	CAD	Manual
Timer function	Switchable timer effective or ineffective (Timer period: 1 to 500 ms, 9 levels variable)	
Protection	IP67 (IEC)	
Ambient temperature	-10 to +55 °C +14 to +131 °F (No dew condensation or icing allowed), Storage: -20 to +70 °C -4 to +158 °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	
Voltage withstandability	1,000 V AC for one min. between all supply terminals connected together and enclosure	
Vibration resistance	10 to 500 Hz frequency, 3 mm double amplitude or maximum acceleration 196 m/s ² in X, Y, and Z direction for 2 hours each	
Shock resistance	500 m/s ² acceleration (5 approx.) in X, Y and	



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

Accessories (Option)



	Product number	Part number	Product	D
Download				
Catalog/ Datasheet	CAD		Manual	
No image	MS-LX-2	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>

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Control Components & Electronic Device Products Technical Support

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

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Catalog/Datasheet

Technical Support

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CADManual

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

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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 / Proximity sensors

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
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Area Sensors
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Measurement
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