

Search Automation Controls 🔍

Home Products Download Resource Support Sales Locations

Panasonic Industry > Automation Controls Top > FA Sensors & Components > Sensors > Photoelectric Sensors / Laser Sensors > LX-101-P

Sensors

Photoelectric Sensors / Laser Sensors >

Digital Mark Sensor LX-100 >

LX-101-P

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-P | Digital Mark
Sensor LX-100

Download

Catalog/
Datasheet

CAD

Manual



*Photo may vary from actual product.

RoHS
compliant

?

Product Number LX-101-P

Part Number LX-101-P



Contact Us

Technical Inquiries,
Purchase Support &
Additional Assistance

Technical inquiry

Business inquiry

Other inquiry

Product

Details

Product Name

Product

Technical inquiry

Business inquiry

Other inquiry

Digital Mark Sensor

Cable type

[Digital Mark Sensor LX-100](#)

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-P
Part Number	LX-101-P
Products Name	Digital Mark Sensor
Product details	Cable type
The price of the product	Please contact office




Item	Specifications
Applicable regulations	EMC Directive, RoHS Directive
Sensing range	10 ± 3 mm 0.394 ± 0.118 in
Spot size	1 x 5 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)	PNP open-collector transistor - Maximum source current: 50 mA - Applied voltage: 30 V DC or less (between output and +V) - Residual voltage: 1.5 V or less (at 50 mA source current)
Output 1:Short-circuit protection	Incorporated
Output 1:Output operation	Mark mode: Light-ON / Dark-ON (Auto-setting on teaching) Color mode:



Item	Specifications
	Consistent-ON / Inconsistent-ON (Setting on teaching)
Output 2(OUT)	PNP open-collector transistor - Maximum source current: 50 mA - Applied voltage: 30 V DC or less (between output and +V) - Residual voltage: 1.5 V or less (at 50 mA source 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	PNP non-contact input - Signal condition: High... +4 V to +V (sink current: 3 mA or less), Low... 0 to +0.6 V, or open - 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
Timer function	Incorporated with variable ON-delay / OFF-delay timer, switchable either 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
	Z directionthree times each
Emitting element	Combined Red / 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
<div>No image</div>	MS-LX-1	MS-LX-1	-	-
<div>No image</div>	MS-LX-2	MS-LX-2	-	-

Recently checked products

Recently checked product numbers

- DP-101A-E-P | Dual Display Digital Pressure Sensor [For Gas] DP-100 >
- NA2-N8-PN | General Purpose & Slim Body Area Sensor NA2-N >
- NA2-N8 | General Purpose & Slim Body Area Sensor NA2-N >
- NA2-N28-PN | General Purpose & Slim Body Area Sensor NA2-N >
- NA2-N28 | General Purpose & Slim Body Area Sensor NA2-N >

Contact Us



Control Components & Electronic Device Products Technical Support

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

Contact Us

FA Sensors & Components, Motors Technical Support

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

Contact Us

Motors Technical Support

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 /
ntiometers

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	Light Curtains /	Human	Energy
Conductive Film	Safety	Machine	Management
Cooling Fan	Components	Interface	Solutions
	Area Sensors	Pressure	
	Inductive	Sensors / Flow	
	Proximity	Sensors	
	Sensors	Measurement	
	Particular Use	Sensors	
	Sensors		

