

Long-Range Laser Sensor

LA-MR Series



Push-button setting, easy to use

Super easy to operate, just one click to complete the setup.



Metal housing with excellent impact resistance

Metal material with stronger impact resistance.



Detection distance can reach more than 100 m

The longest distance of the retro-reflective type can reach more than 100 m.

Ask SENPUM

+86-755-83330055

Fast Delivery Standard Models



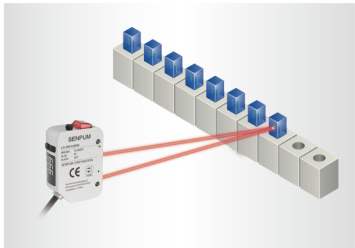
Most products are in stock. Upon receiving your order, we will arrange prompt shipment to minimize your downtime-related costs and losses.



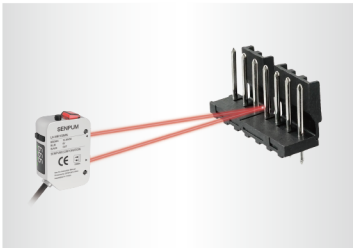
More Features

- Red high-quality laser.
- Laser spot 0.1 mm or less.
- Laser spot, detection distance can be customized.
- Detection distance, sensitivity, and normally open or closed can be adjusted.

Applications



Long-distance detection of the presence or absence of electronic components



Pin Inspection



Stable detection of falling containers at a long distance

Product List

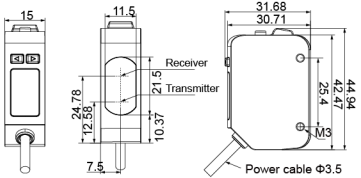
Appearance	Detection distance	Spot size	Output type	Model
	50 m	Approx. 15 mm	NPN	LA-MR50MN
			PNP	LA-MR50MP
	100 m	Approx. 80 mm	NPN	LA-MR100MN
			PNP	LA-MR100MP

Specifications

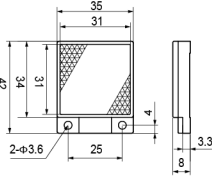
Type	Retro-reflective type	
	Long distance type	
Model	NPN	LA-MR50MN LA-MR100MN
	PNP	LA-MR50MP LA-MR100MP
Detection distance	50 m / 100 m	
Object to be detected	Opaque objects	
Spot size	Approx. 15 mm / Approx. 80 mm	
Detection blind zone	100 mm / 200 mm	
Minimum detection object	1 mm / 2 mm	
Light source	High-power red laser	
Power voltage	10 to 30 VDC ±10%, Ripple Voltage (P-P): max. 10%	
Control output	NPN or PNP: up to 100 mA (40 V), residual voltage: max. 1 V	
Current consumption	Max. 30mA	
Response time	1 ms	
Sensitivity adjustment	Button setting	
Output type	LIGHT-ON/DARK-ON	
Indicator	Output and power supply: Red LED; Stabilized operation: Green LED	
Circuit protection	Reverse current protection, overcurrent protection, overvoltage protection	
Protection class	IP66	
Ambient light	Incandescent lamp: Maximum 5,000 lux; Sunlight: Maximum 20,000 lux	
Ambient temperature	-20 to +55 °C (no freezing)	
Relative humidity	35 to 85% RH (no condensation)	
Housing	Metal	
Length	2 m	
Weight	Approx. 85 g	

Dimensions

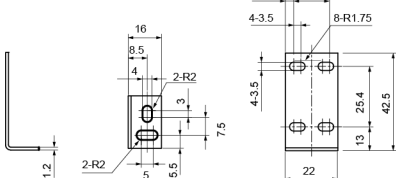
LA-MR50MN/P LA-MR100MN/P



Reflector (standard equipment) N-66



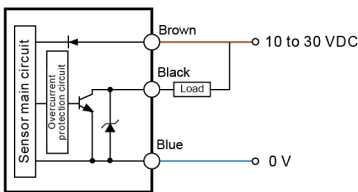
Mounting bracket (sold separately) N-100



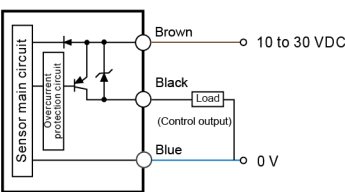
Unit: mm

I/O Circuit Diagrams

NPN output type

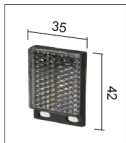


PNP output type



Accessories

Reflector (standard equipment) N-66



Mounting bracket (sold separately) N-100

