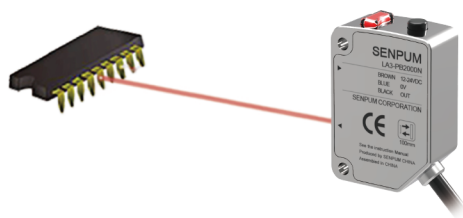


Precision Positioning Laser Sensor LA3-P Series



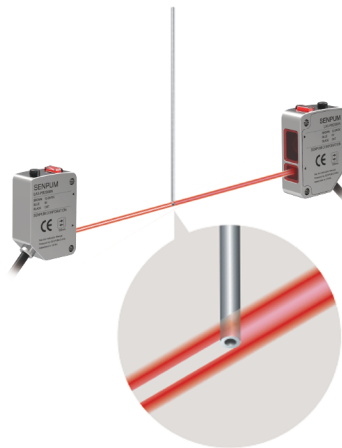
Ultra-small laser spot

Spot as small as 0.5 mm or less for stable detection even with small objects.



Stable detection even with ultra-small objects

Positioning of the front end of the dispenser syringe.



Metal housing with excellent impact resistance

Imported zinc alloy is used, which makes it stronger and more durable.



Ask SENPUM

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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.



WeChat



WhatsApp

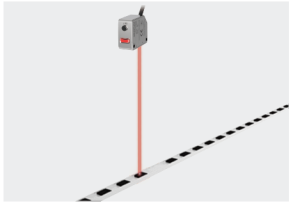


LINE

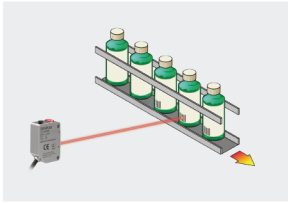
More Features

- Ultra-small laser spot.
- Ultra-small dimensions for a wider range of applications.
- Easily identifies small changes in reflective objects.
- Can be used for high-precision applications.

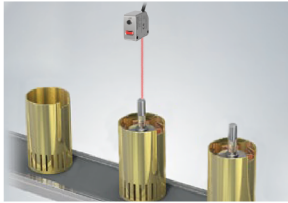
Applications



Detecting the presence or absence of microchips



Detecting the presence or absence of printed bar codes on bottles



Detecting anomalies in the insertion of parts

Product List

Type	Appearance	Detection distance	Spot size	Output type	Model
Retro-reflective type		15 m	15 mm	NPN	LA3-PR15MN
				PNP	LA3-PR15MP
		0.03–50 m	Approx. Φ 60 mm at 50 m	NPN	LA3-PR50MN
				PNP	LA3-PR50MP
Thrubeam type		15 m	15 mm	NPN	LA3-PD15MN
				PNP	LA3-PD15MP
		30 m	Approx. Φ 30 mm at 30 m	NPN	LA3-PD30MN
				PNP	LA3-PD30MP

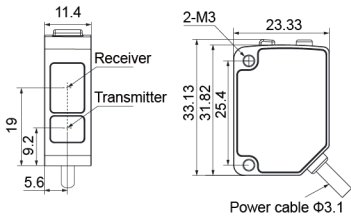
Specifications

Type		Retro-reflective type		Thrubeam type	
Model	NPN	LA3-PR15MN**	LA3-PR50MN**	LA3-PD15MN	LA3-PD30MN
	PNP	LA3-PR15MP**	LA3-PR50MP**	LA3-PD15MP	LA3-PD30MP
Spot size		15 mm	Approx. Φ60 mm at 50 m	15 mm	Approx. Φ30 mm at 30 m
Detection distance	MEGA	15 m	0.03–50 m	15 m	30 m
	FINE				
	HSPD				
Response time		1 ms			
Output type		NPN or PNP open collector output, NO/NC switchable			
Control output	NPN	Maximum load current: 100 mA; Residual voltage: less than 2 V			
	PNP	Maximum load current: 100 mA; Residual voltage: less than 2 V			
Circuit protection		Power reverse connection protection, power surge protection, output short circuit protection			
Power voltage		12 to 24 VDC ±10%, Ripple Voltage (P-P): 10% max.			
Power consumption		200 mW or less (8 mA or less at 24 V, 15 mA or less at 12 V)		T: 7 mA max. at 24 V, 13 mA max. at 12 V R: 13 mA max. at 12/24 V	
Ambient temperature		-20 to +55 °C (no freezing)			
Ambient humidity		35 to 85% RH (no condensation)			
Vibration resistance		10 to 55 Hz, Compound amplitude 1.5 mm, 2 hours in each of the X, Y, and Z directions			
Shock resistance		1,000 m/s², 3 times in each of the X, Y, and Z directions			
Housing		Housing: Zinc alloy; Indicator cover: PC; Lens cap: PMMA; Button: ABS; Cable (2 m cable type only): PVC			
Housing dimensions		33.13 mm (H) x 11.4 mm (W) x 23.33 mm (L)			
Weight		Approx. 59 g			

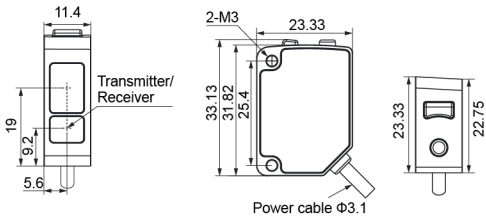
*1 Detection distances are tested against a white cardboard background.

Dimensions

LA3-PR15MN/P LA3-PR50MN/P

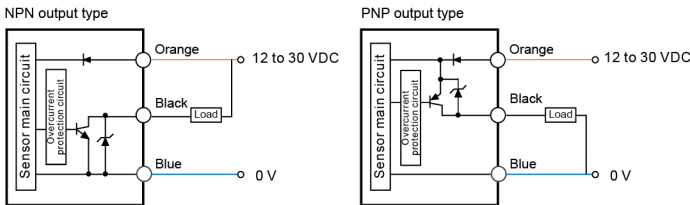


LA3-PD15MN/P LA3-PD30MN/P



Unit: mm

I/O Circuit Diagrams



Bracket (sold separately)

N-100



Laser Sensors

- LA2-ZB
- LA-ZB
- LO-Z
- LA-ZH
- LA-X
- LA-N
- LA-H
- LA2-S
- LA3-P
- LA-MR
- LA-T

- Fiber Optic Sensors
- Photoelectric Sensors
- Color Sensors

Laser Sensors

- Proximity Sensors
- Precision Contact Sensors
- Area Sensors/ Safety Light Curtains
- Laser Scanners
- Digital Contact Sensors
- Laser Displacement Sensors
- Laser Micrometers
- Confocal Displacement Sensors
- Barcode Readers
- AI Vision Sensors

- RFID
- Infrared Temperature Sensors
- Pressure Sensors
- Flow Sensors
- Magnetic Sensors
- Ultrasonic Sensors
- Magnetic Scales
- Static Eliminators

