

IO-Link
SensorsPhotoelectric
SensorsFiber-optic
Sensors

Standard Fibers

Fiber Sensors
Communication
Units

Mark Sensors

Laser Sensors

Safety Sensors

Pressure &
Flow SensorsInductive
Proximity
SensorsMeasurement
SensorsIonizers/
Electrostatic
Sensors

Accessories

EX-L200



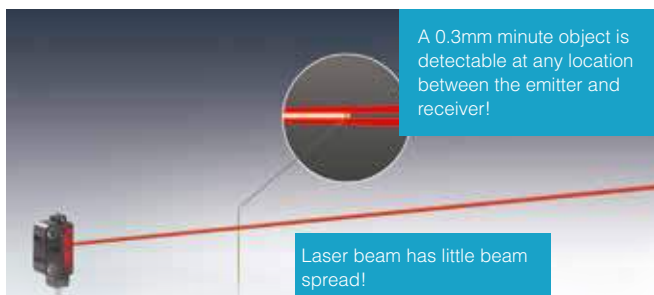
EX-L200

Miniature laser sensor with
a built-in amplifier!

Features

■ Minute object sensing type EX-L211 (thru-beam)

The beam of the **EX-L200** series is purposely widened to have a lower beam density and little beam spread so that when detecting minute objects, even a slight change in the light received intensity will not be missed.



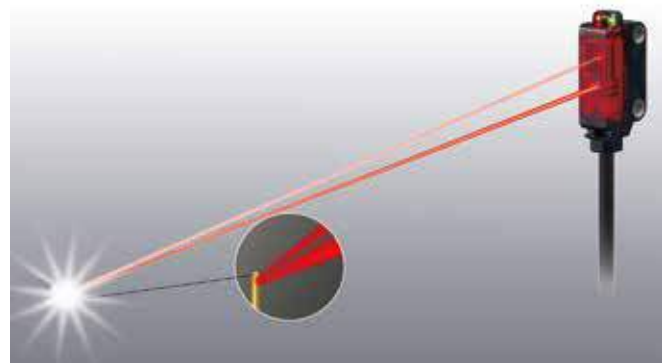
■ Environmental resistance

Thanks to the IP67 casing, the sensor is suitable for installation in humid and dusty environments.



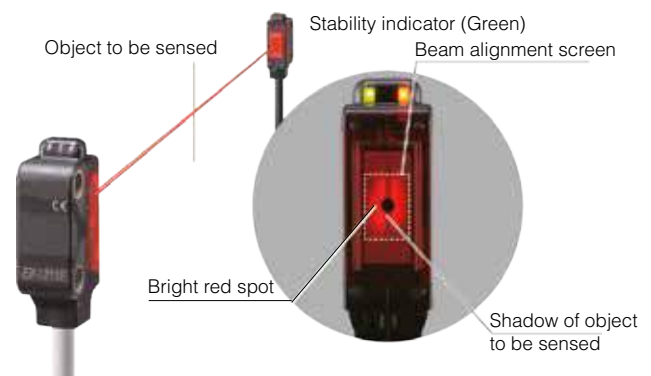
■ Minute detection (reflective)

With a repeatability of 0.02mm the sensor is perfectly suited for positioning tasks.



■ Easy alignment

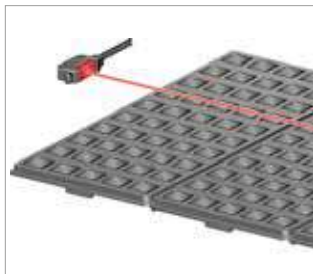
Beam alignment is carried out by looking at the red spot reflected on the beam alignment screen to match with the actual object. The optimum position can be understood at a glance by looking at the beam alignment screen and stability indicator (green).



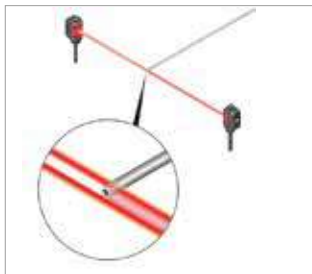
Easy adjustment by reflecting the shadow of the detection object.

Typical applications

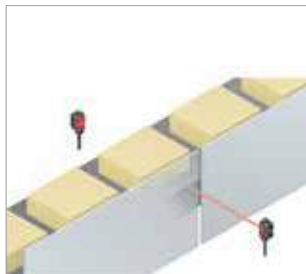
Detecting ICs that are out of position in multiple palettes



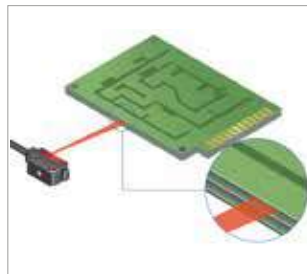
Detecting the tip of a very thin pipe



Detecting objects from an opening



Detecting very small objects



Technical specifications

Type		Thru-beam type		Retro reflective type	Diffuse reflective type		
					Spot reflective	Convergent reflective spot	Convergent reflective line spot
Model no.	NPN output	EX-L211	EX-L212	EX-L291	EX-L221	EX-L261	EX-L262
	PNP output	EX-L211P	EX-L212P	EX-L291P	EX-L221P	EX-L261P	EX-L262P
Sensing range		1m	3m	4m	45 to 300mm	20 to 50mm	20 to 70mm
Emission spot size		6x4mm at 1m	8x5.5mm at 1m	6x4mm at 1m	Ø 1mm at 300mm	Ø 1mm at 50mm (convergent point: 22mm)	1x5mm at 50mm (convergent point: 22mm)
Object to be sensed		Ø 2mm (opaque)	Ø 3mm (opaque)	Ø 25mm (opaque)	Opaque, transparent		
Power supply voltage		12 to 24VDC ±10%					
Output		PNP / NPN open-collector transistor, max. 50mA					
Response time		Max. 0.5ms					
Emitting element		Red semiconductor laser (class 1)					
Protection		IP67 (IEC)					
Ambient temperature		-10 to +55°C					
Material		Enclosure: PBT, front cover: acrylic; lenses: glass					
Connection method		Cable, 2m					
Dimensions (HxWxD)		25.9x 8.2x12mm		29.9x8.2x13mm		29.9x8.2x13.5mm	
Accessories		Mounting plates MS-EXL2-2 2 pcs.		Reflector RF330, mounting plate MS-EX-L2-3 1 pc.		Mounting plate MS-EX-L2-3 1 pc.	

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