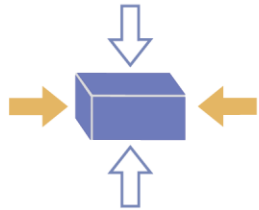




Select by Application 2

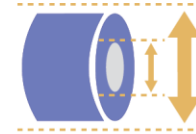
Thickness / Width



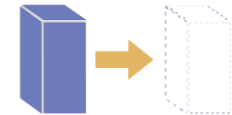
Height / Step Height



Outer / Inner Diameter



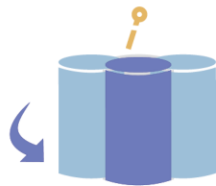
Stroke and Positioning



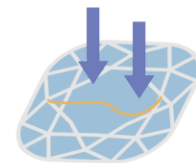
Runout / Vibration



Deflection and Decentering



Shape/ Profile



3D Inspection



Thickness / Width

Depending on the measurement conditions, either single sensor or two sensor solutions are possible. Features such as simplified wiring or internal calculation functions make this easy no matter what.

Single/double blank material sheet detection



The extensive lineup covers ranges from 20 mm (0.79") to 1000 mm (39.37"), allowing for measurement that is unaffected by color and glossiness.



Measurement range: 20 to 1000 mm (0.79" to 39.37")

CMOS Multi-Function Analog Laser Sensor
LM series

Height



Height is measured by detecting the position of a product's top surface. For products with fixed reference planes, measurements can also be performed using two sensors, with the height calculated as the difference between the values of the sensors.

Indentation or Protrusion height measurement



Provides 1 μm (0.00004") precision and IP67 environmental resistance. 6 sensor lineup caters to any equipment and installation.



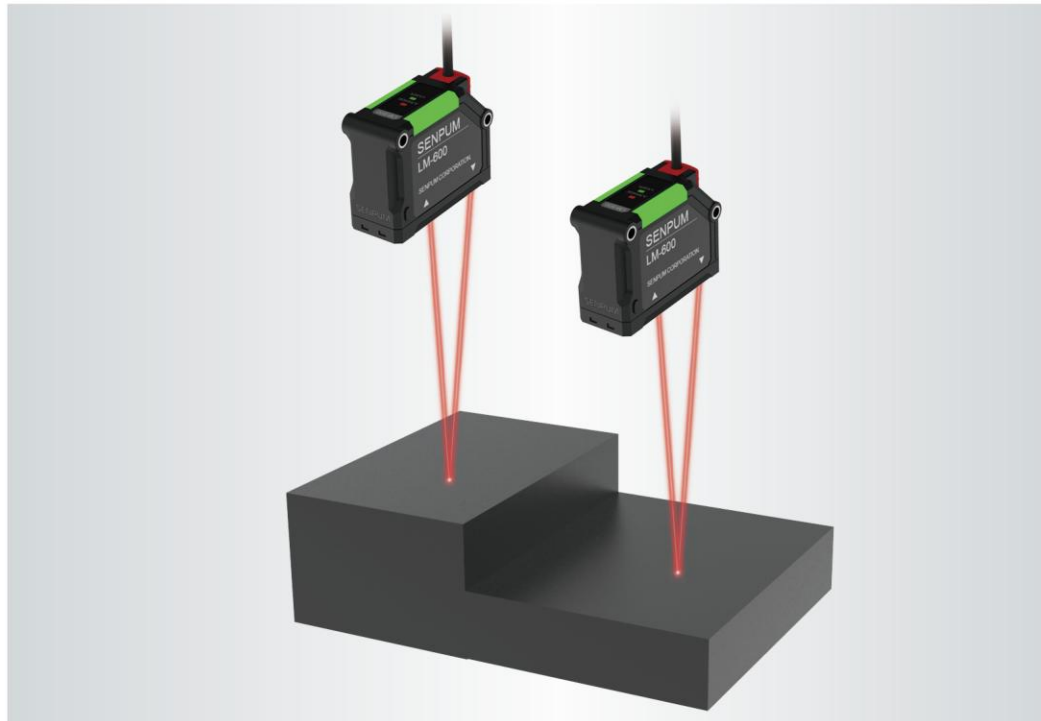
Measurement range: 12 to 32 mm (0.47 to 1.25")

High-Accuracy Digital Contact Sensor
MT1 series

Step Height

The sensors here measure height differences by measuring two points on the surface of the target and calculating the difference between the locations to measure and the reference plane.

Height difference measurement



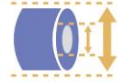
Provides 1 μm (0.00004") precision and IP67G environmental resistance.
5 sensor lineup caters to any equipment and installation.



Measurement range: 20 to 1000 mm (0.79" to 39.37")

CMOS Multi-Function Analog Laser Sensor
LM series

Outer Diameter



The outer diameter of cylindrical products can be measured with a single axis. It is also possible to rotate the product and to calculate the circularity by using sensors on two or more axes.

Shaft outer diameter measurement



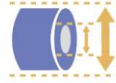
Provides 1 μm (0.00004") precision and IP67 environmental resistance. 6 sensor lineup caters to any equipment and installation.



Measurement range: 12 to 32 mm (0.47 to 1.25")

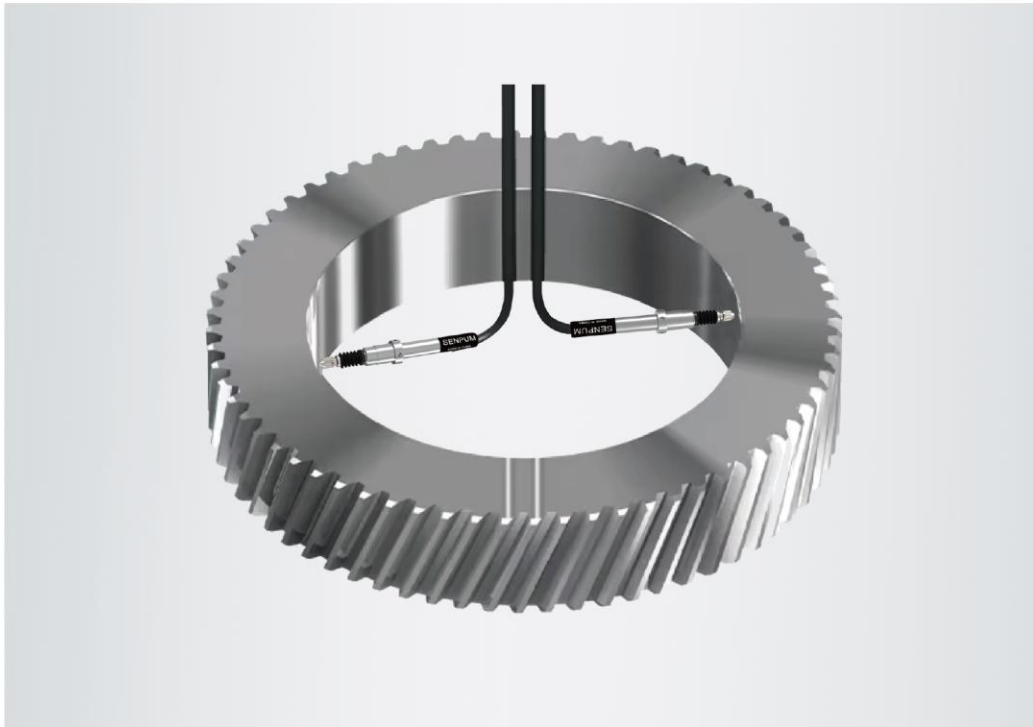
High-Accuracy Digital Contact Sensor
MT1 series

Inner Diameter



The available selections for inner diameter measurement vary depending on the environment in which to measure and the size of the diameter. Sometimes these measurements can be performed with one sensor, and sometimes calculations with two sensors are necessary.

Gear inner diameter measurement



Provides 1 μm (0.00004") precision and IP67 environmental resistance. 6 sensor lineup caters to any equipment and installation.

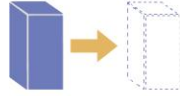


Measurement range: 12 to 32 mm (0.47 to 1.25")

High-Accuracy Digital Contact Sensor

MT1 series

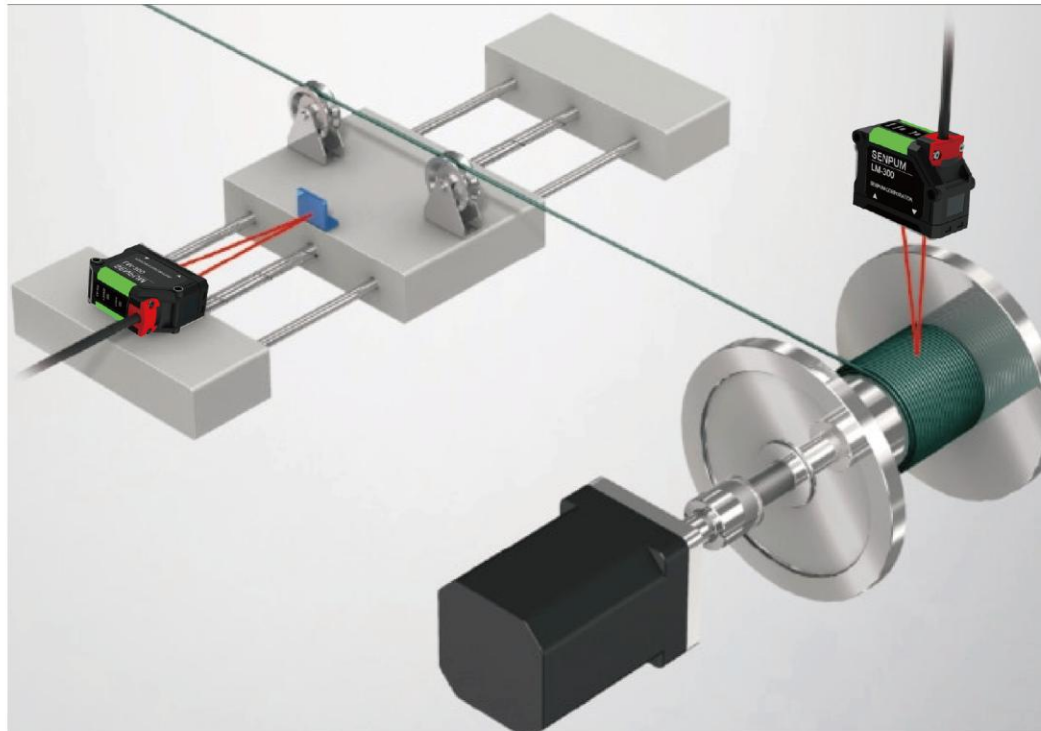
Stroke and Positioning



Stroke observation allows for predictive detection of equipment defects.

Checking that the positions of the product and equipment are correct during each cycle leads to a lower defect rate.

Traverser stroke inspection



Provides 1 μm (0.00004") precision and IP67G environmental resistance.
5 sensor lineup caters to any equipment and installation.



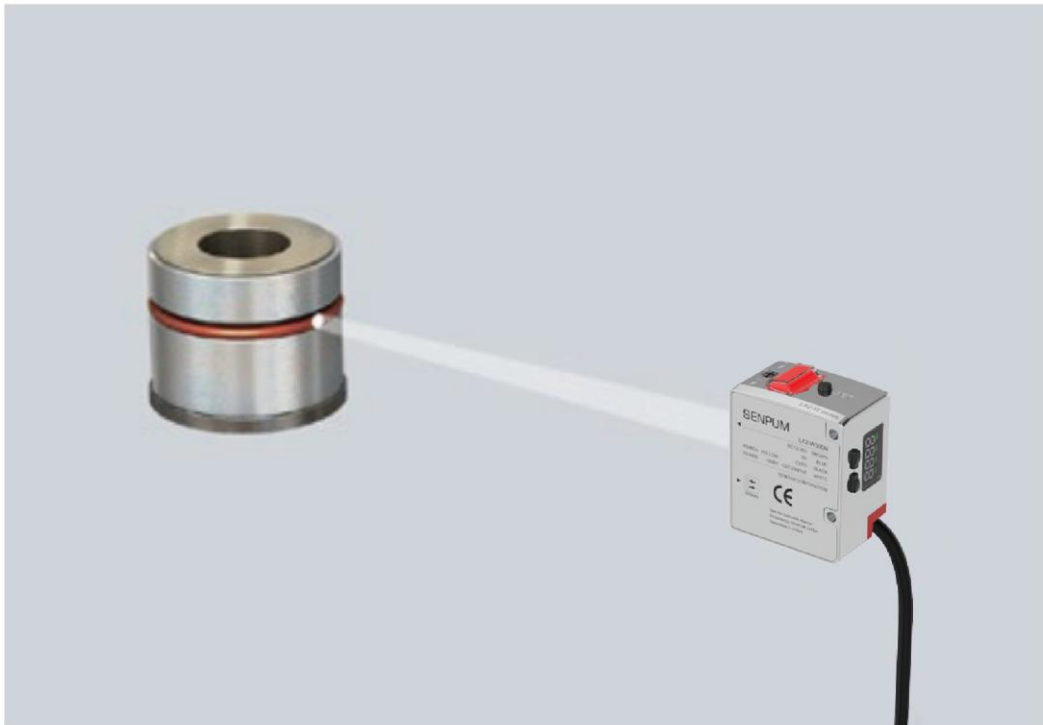
Measurement range: 20 to 1000 mm (0.79" to 39.37")

CMOS Multi-Function Analog Laser Sensor
LM series

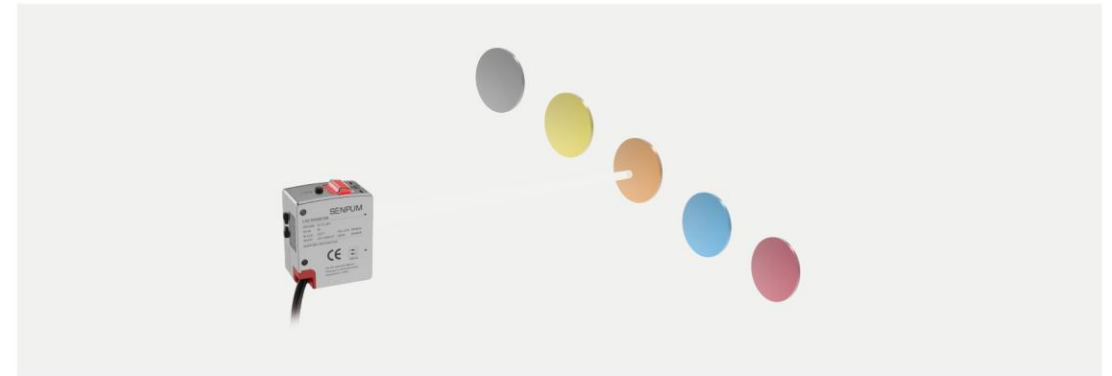
Assembly Inspection

The LA2-W Series can detect any difference in appearance (including color) and is in a durable metal housing. It has one touch calibration and can store up to 16 colors with an optional controller. This series has a range of up to 500mm (19.69") and offers hard wired and M12 connector cable options.

Confirmation of component assembly



“White spot” for stable detection of differences in appearance (color)



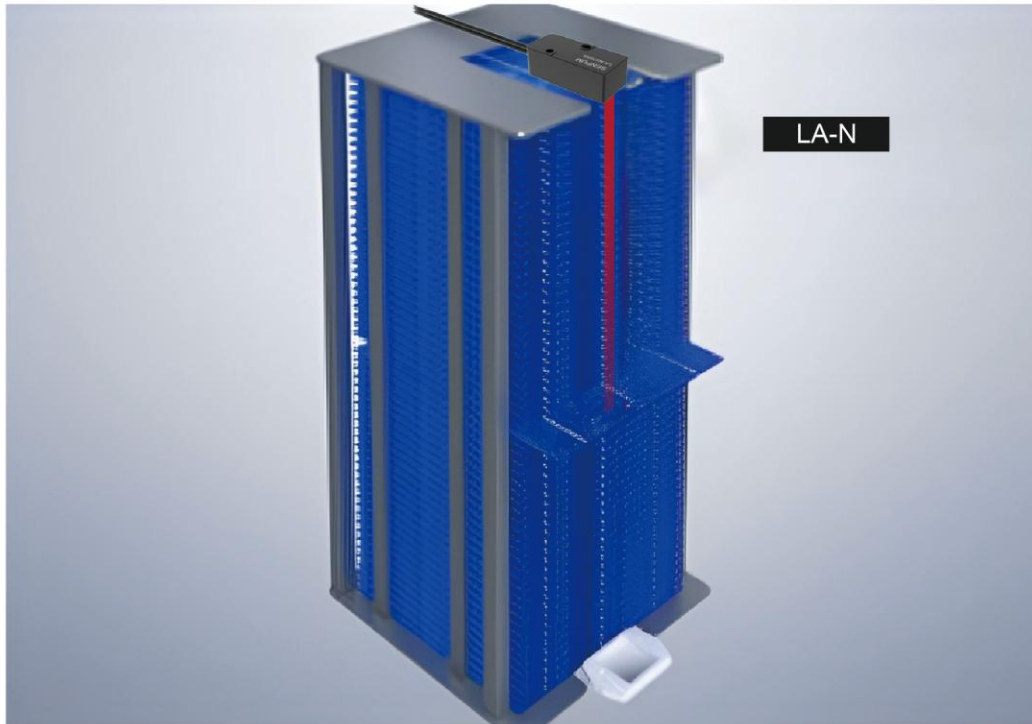
Measuring range: 30 to 500 mm (1.1 to 19")

White Light Color Sensor
LA2-W series

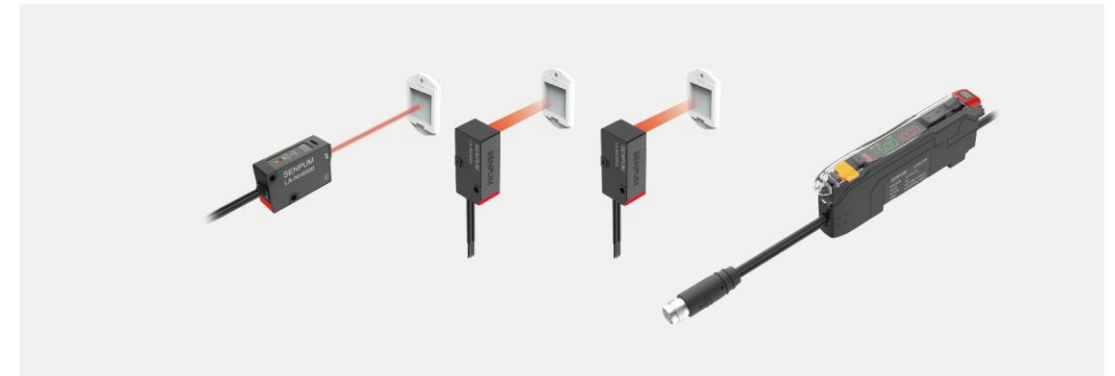
Area types

The use of a laser as a light source for inspection, with a small and visible spot, allows for long-distance inspection and is suitable for a wide range of inspection situations.

PCB misalignment detection



Long Range & Visible Beam Spot Precision Detection and Easy to Operate



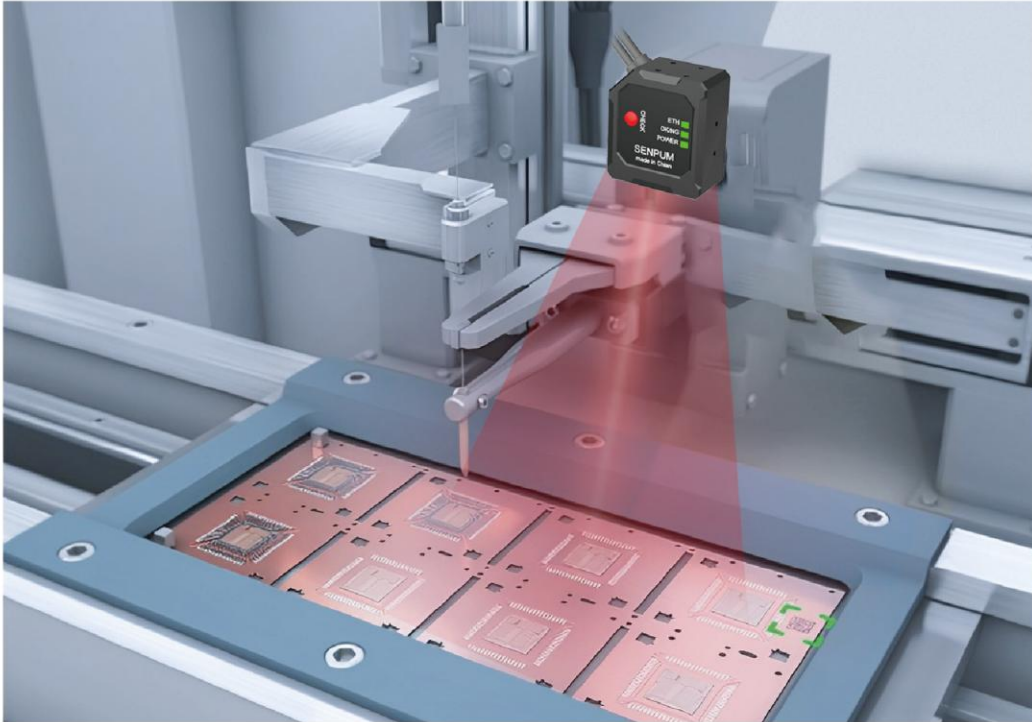
Measuring range: 2 to 6 m (78 to 236")

Multi-Purpose Digital Laser Sensor
LA-N series

color change

Without interrupting on-site operations, stable reading can be realized with just this one device; intelligent response to changes in barcode status, equipped with AI, ultra-compact × ultra-high-performance barcode readers are born.

Leadframe code color change due to heat treatment



No interruption of field operations Stable reading with just this one device



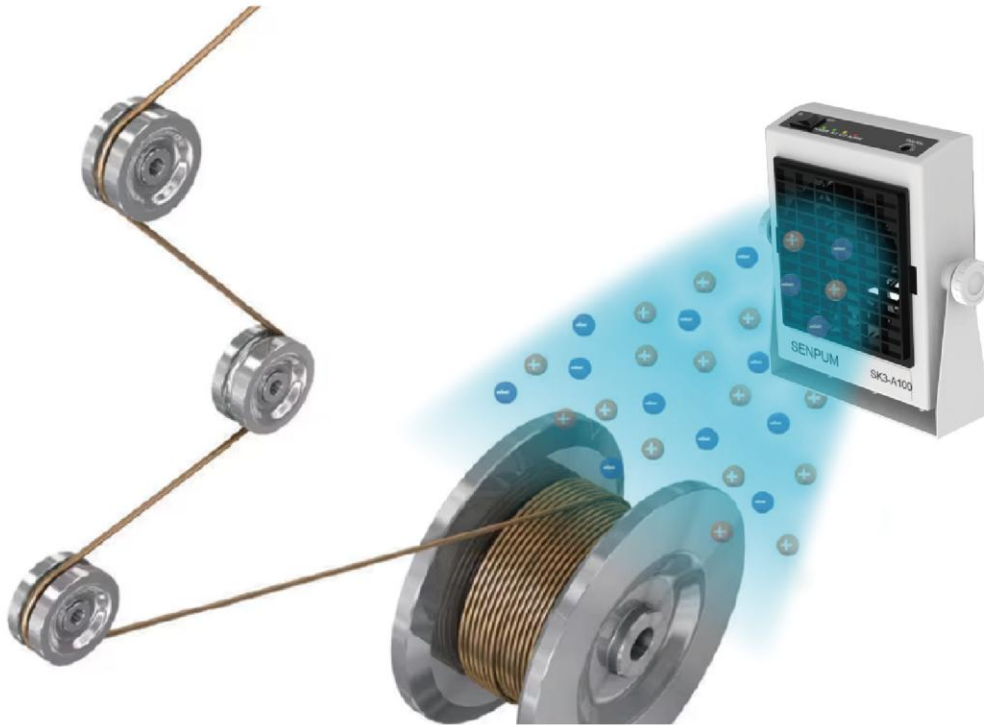
Measuring range: 50 to 600 mm

Intelligent Barcode Reader
XR-1500 series

Color change

Since contact and friction occurs at various locations, a large amount of charge is generated. Charged and unruly rolls occur, and when the ordering party rolls out the device, it leads to tangling, and complaints occur. By using a static electricity eliminator, it is possible to prevent unruly rolls.

Prevents the copper wire from winding around



Maintains superb static elimination performance for a long time

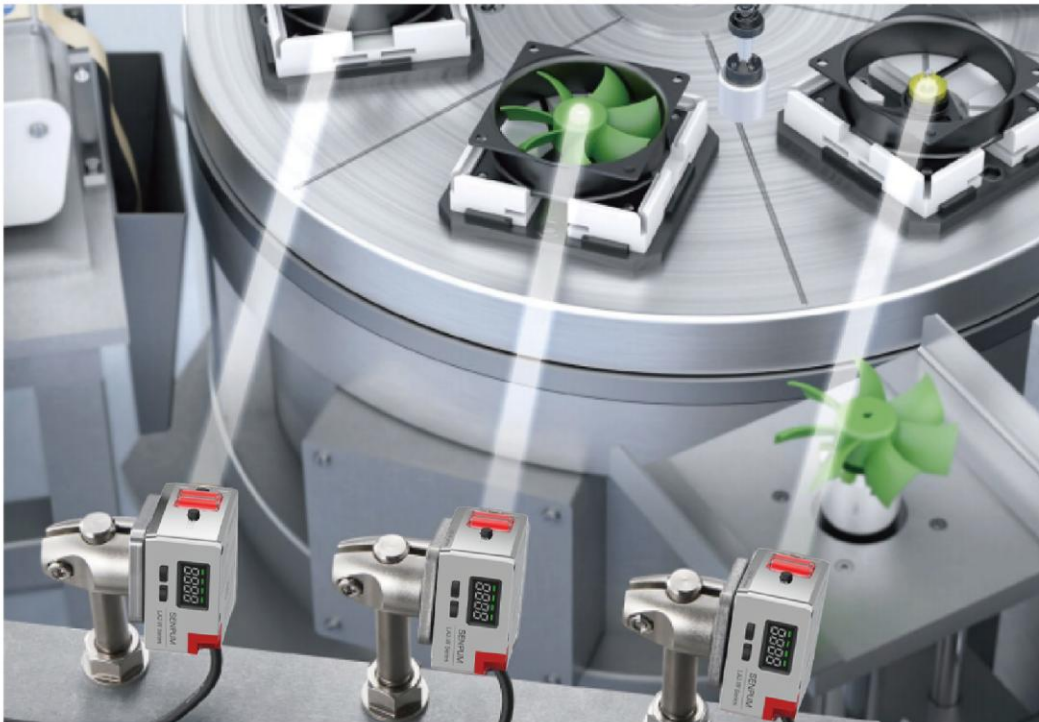


Ultra-compact Static Fan
SK3-A series

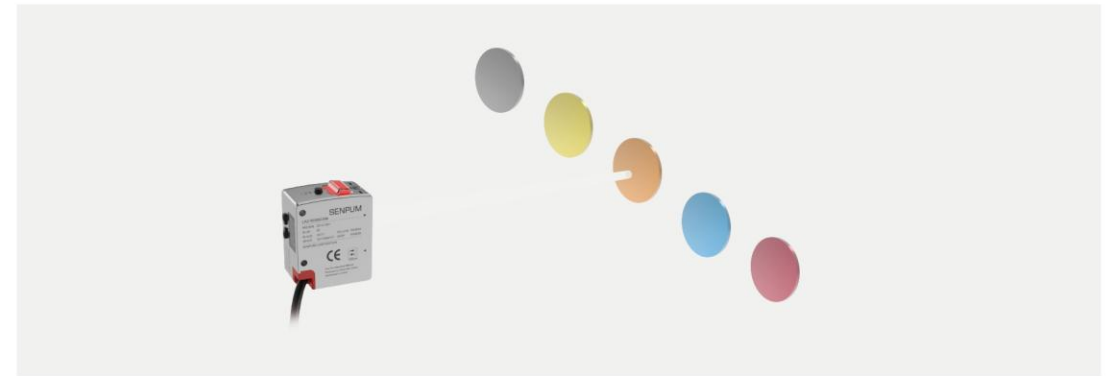
Color change

The LA2-W Series can detect any difference in appearance (including color) and is in a durable metal housing. It has one touch calibration and can store up to 16 colors with an optional controller. This series has a range of up to 500mm (19.69") and offers hard wired and M12 connector cable options.

Detecting Fan Blade Color



“White spot” for stable detection of differences in appearance (color)



Measuring range: 30 to 500 mm (1.1 to 19")

White Light Color Sensor
LA2-W series



Select by Industry



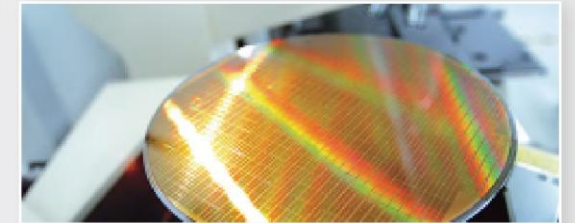
Automotive



E-mobility



Film / Sheet



Semiconductor



Medical



Electronics



Fiber / Cable

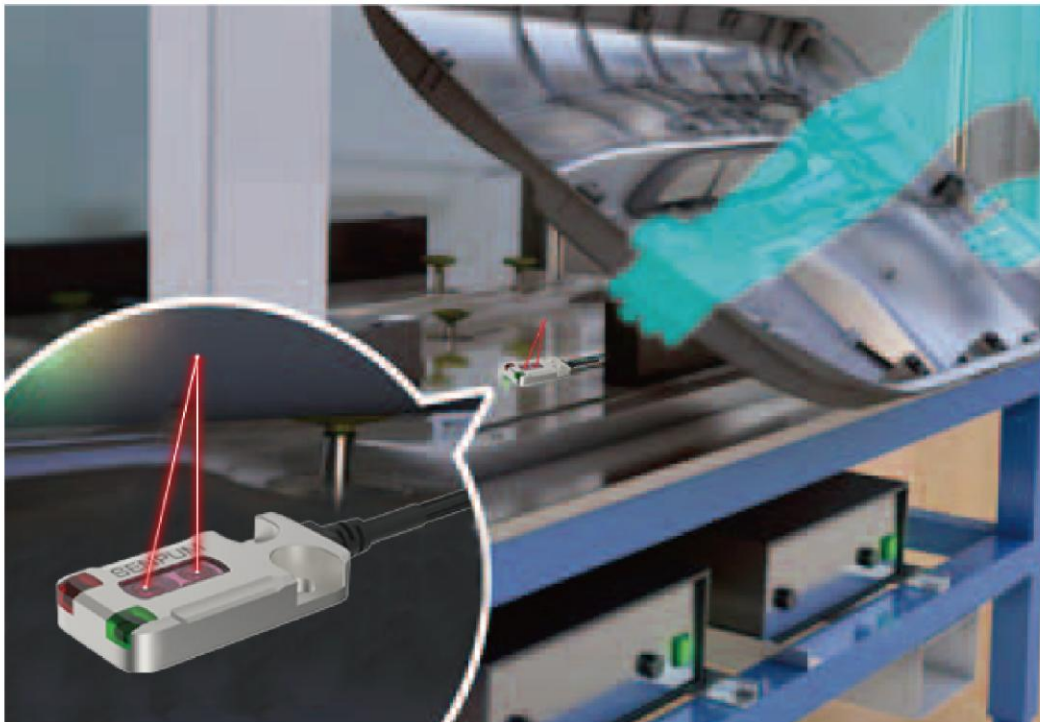


Steel

Automotive

The equipped background suppression function provides stable detection of components only in the specified operating range, eliminating false detection.

Presence/absence confirmation on instrument panels



Maximum detecting distance: 600mm; response time: 0.5ms

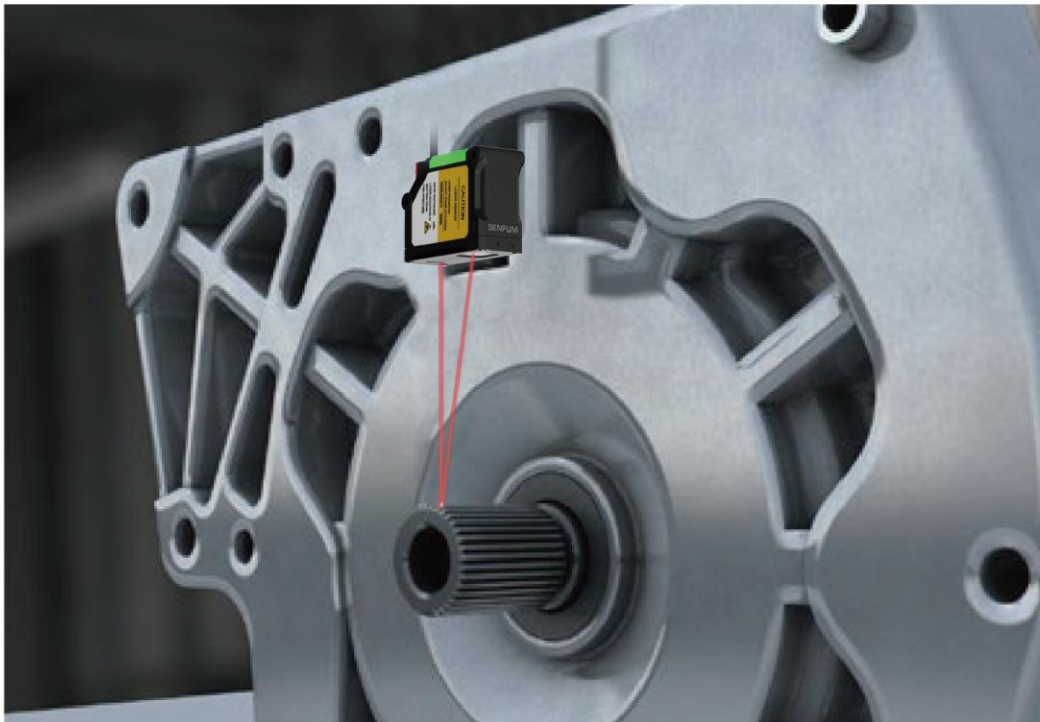
Self-contained Miniature Photoelectric Sensor

PL-F series

Automotive

It is not easily affected by color and can be inspected with repeatable accuracy of 1 μm ; the results can be output without a PLC.

Detection of motor oscillation



Supports detection distances from 20~1000mm
for a variety of applications

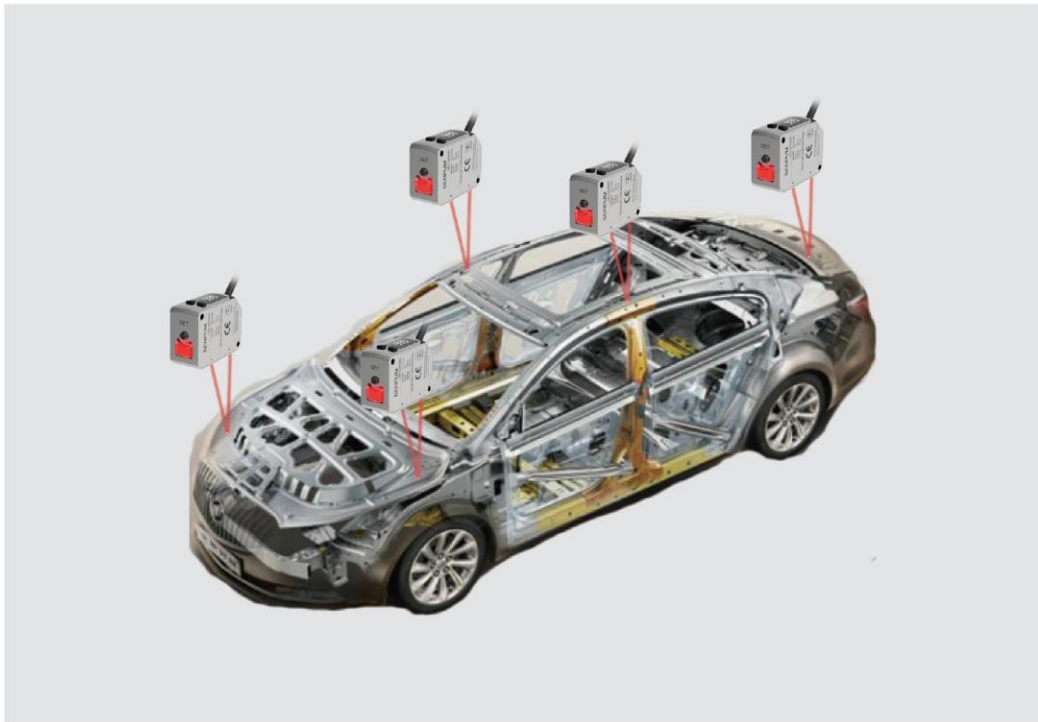
Laser Displacement Sensors

LM series

E-mobility

For inaccessible objects, the LM2-Q series can measure the breakage of the object at a distance.

E-mobility body size measurement



**Supports detection distances from 20~1000mm
for a variety of applications**

Laser Displacement Sensors

LM2-Q series series

E-mobility

LM series laser displacement sensors are not affected by changes in door posture, warping, or color, and the automatic light volume adjustment function ensures stable detection.

Door flatness inspection



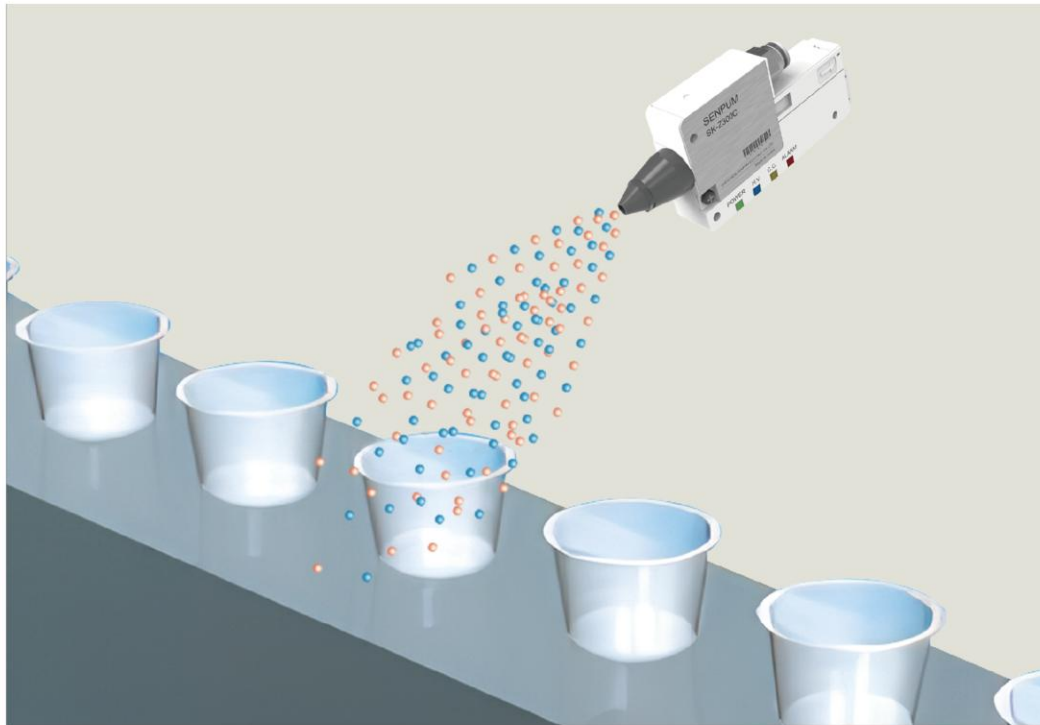
**Supports detection distances from 20~1000mm
for a variety of applications**

**Laser Displacement Sensors
LM series series**

Medical

When cleaning and inspection is required, it can be detected by the LED indicator and the abnormal discharge of the discharge pin can be notified

Resinware static electricity



High voltage stop alarm

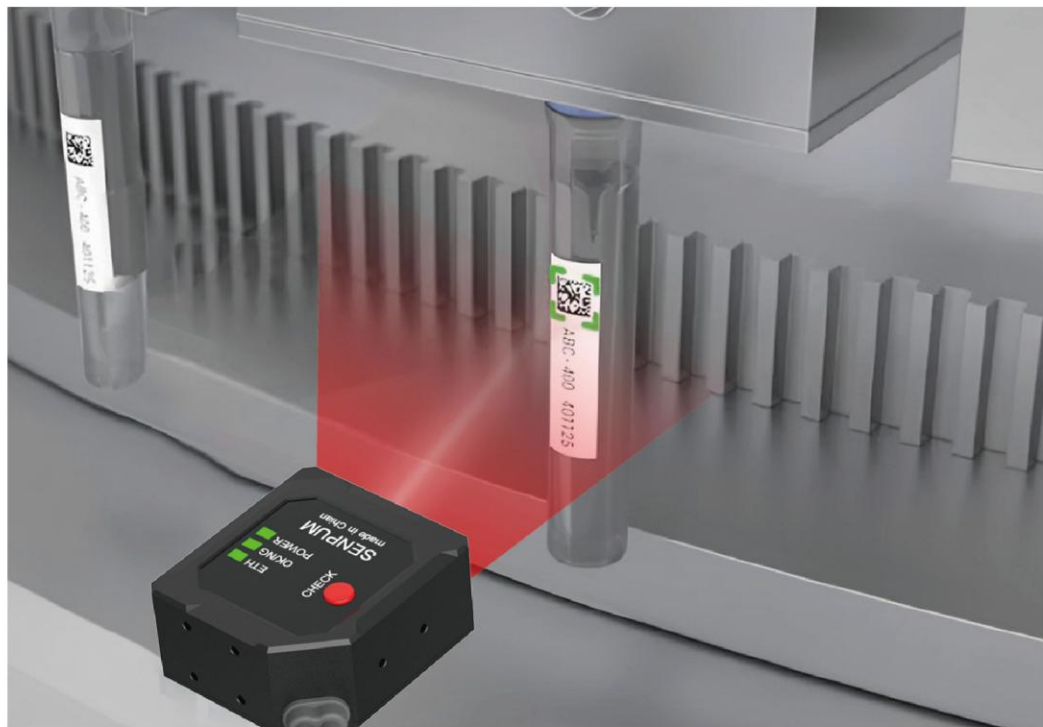
Ultra-small static nozzles

SK-Z300 series

Medical

With a large field of view and large depth of field, it is easy to cope with package size and barcode position variations.

Read the barcode of a test tube



Support auto-focus , auto parameter setting
Intelligent type Barcode Scanners
XR-1500 series

Semiconductor

The cylinder drives the laser sensor to determine the number of wafers. A small spot laser sensor is used because the wafer detection surface is small.

Wafer Quantity Confirmation

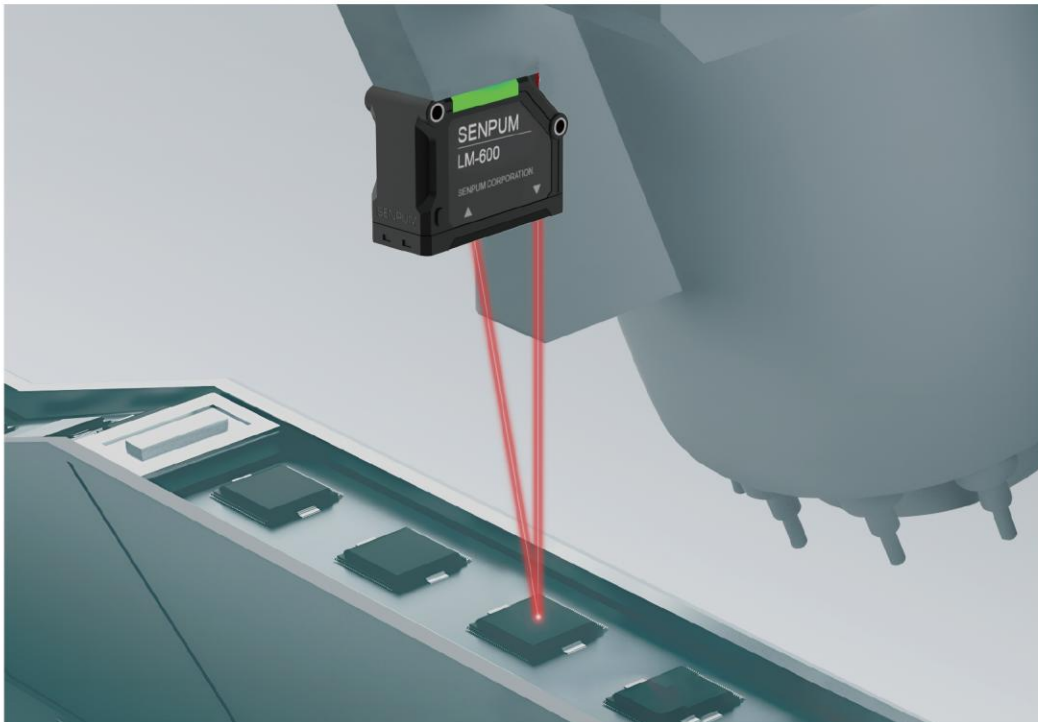


Stable resolution of object step height with high accuracy
CMOS laser sensor type laser sensors
LA2-ZB series

Semiconductor

The optical axis is easier to adjust, and it is possible to adjust the angle to avoid rounding off the light. At the same time, the intensity of the received light is greater, enabling stable detection.

Chip height detection



**Supports detection distances from 20~1000mm
for a variety of applications**

**Laser Displacement Sensors
LM series**

Semiconductor

Reads multiple components on a pallet at once, with a reading speed A of up to 100 codes/sec.

IC parts for high-speed dynamic reading



Smallest resolution 0.12mm; up to 100 codes/s

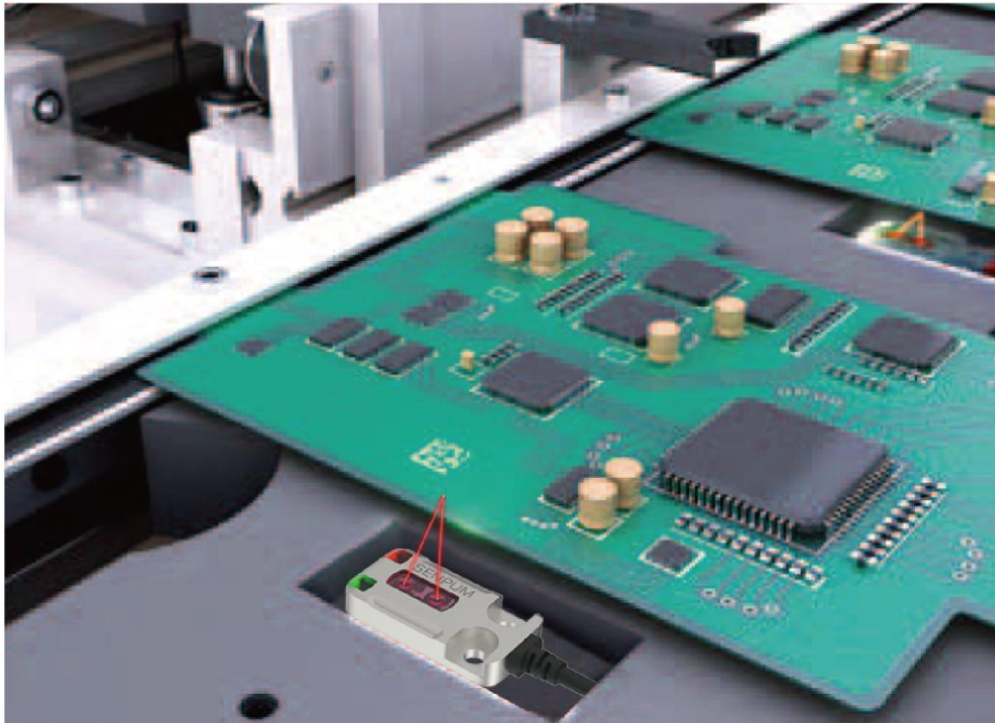
Standard type 1D / 2D Barcode Scanners

XR-1000 series

Electronics

The sensitivity is automatically adjusted according to the light intensity received by the sensor, which reduces the effects of the angle and color of the target, and results in stable operation.

Arrival confirmation of electronic PCBs



Maximum detecting distance: 600mm; response time: 0.5ms

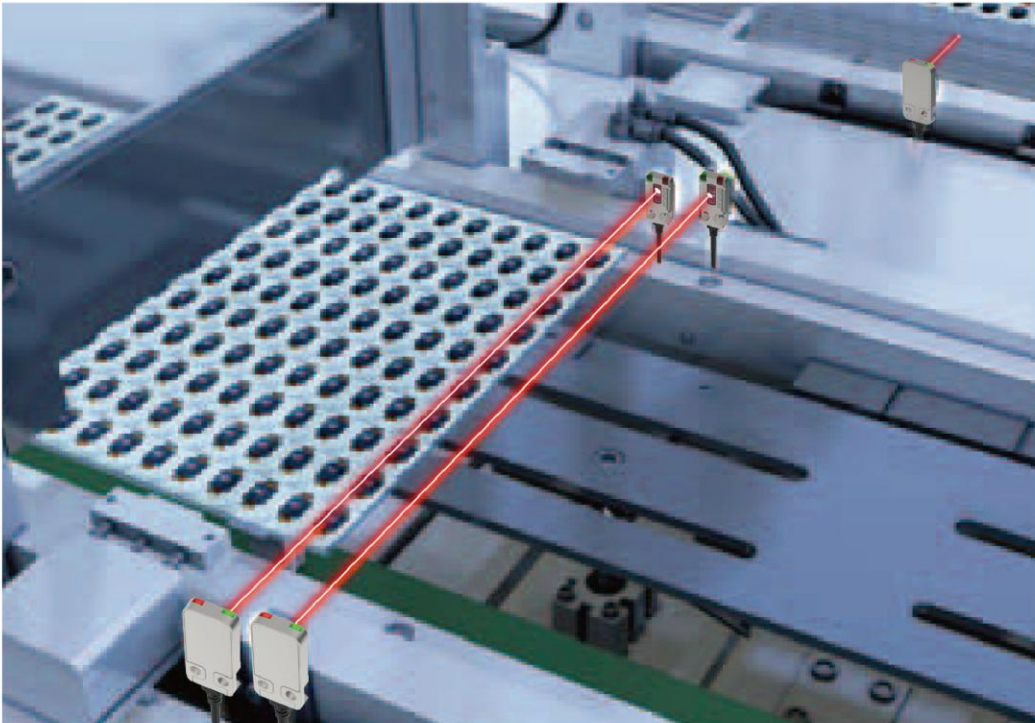
Self-contained Miniature Photoelectric Sensor

PL-F series

Electronics

The sensitivity is automatically adjusted according to the light intensity received by the sensor, which reduces the effects of the angle and color of the target, and results in stable operation.

Detecting improper seating of IC chips



Maximum detecting distance: 600mm; response time: 0.5ms

Self-contained Miniature Photoelectric Sensor
PL-F series

Steel

With switching output, the upper and lower limit positions are easier to set. Sense head amplifier integrated, ultra-small size, simple and easy to install.

Sheet metal tracking



Ultra-high precision, accurate and stable detection for multiple occasions

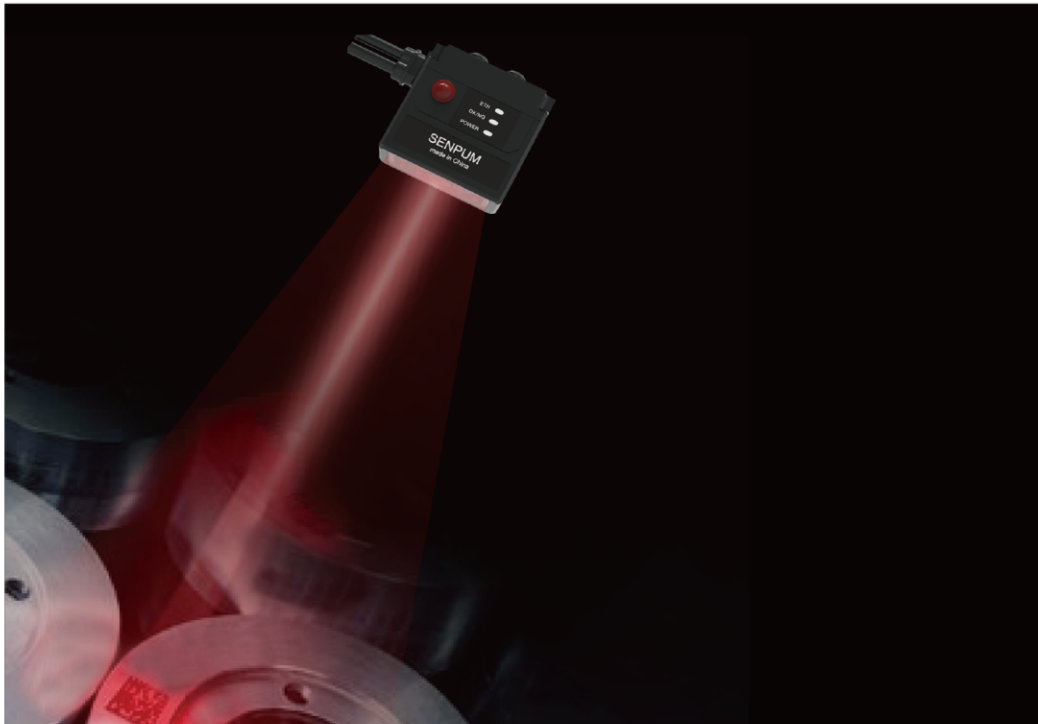
Long distance high-precision type laser displacement sensors

LM2-Q series

Steel

Rich IO interface, access to multiple inputs and signal outputs, support for RS232 serial transmission protocol, Ethernet (TCP / IP).

Production process traceability



1 million pixel processor for minimum resolution of 0.12mm

Standard type 1D / 2D Barcode Scanners

XR-1000 series