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Find the *OMRON ZX-LD40L* at our website: ***Click HERE***

OMRON

Smart Sensor
ZX Series

Not just another idea. A new-generation concept.

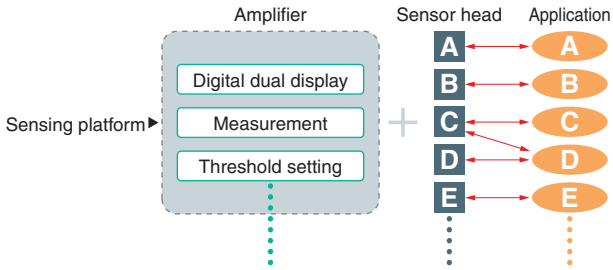


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Smart Style...from OMRON.

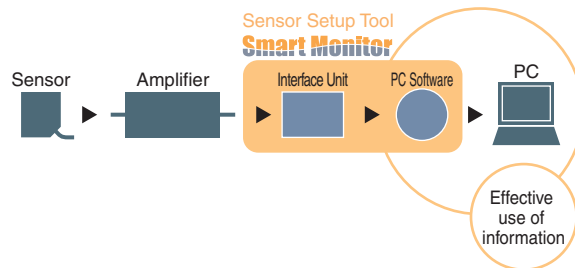
Smart

A host of remarkable functions inside a compact body. OMRON's sensing platform meets a wide range of diverse applications by offering a broad selection of heads employing different detection methods.



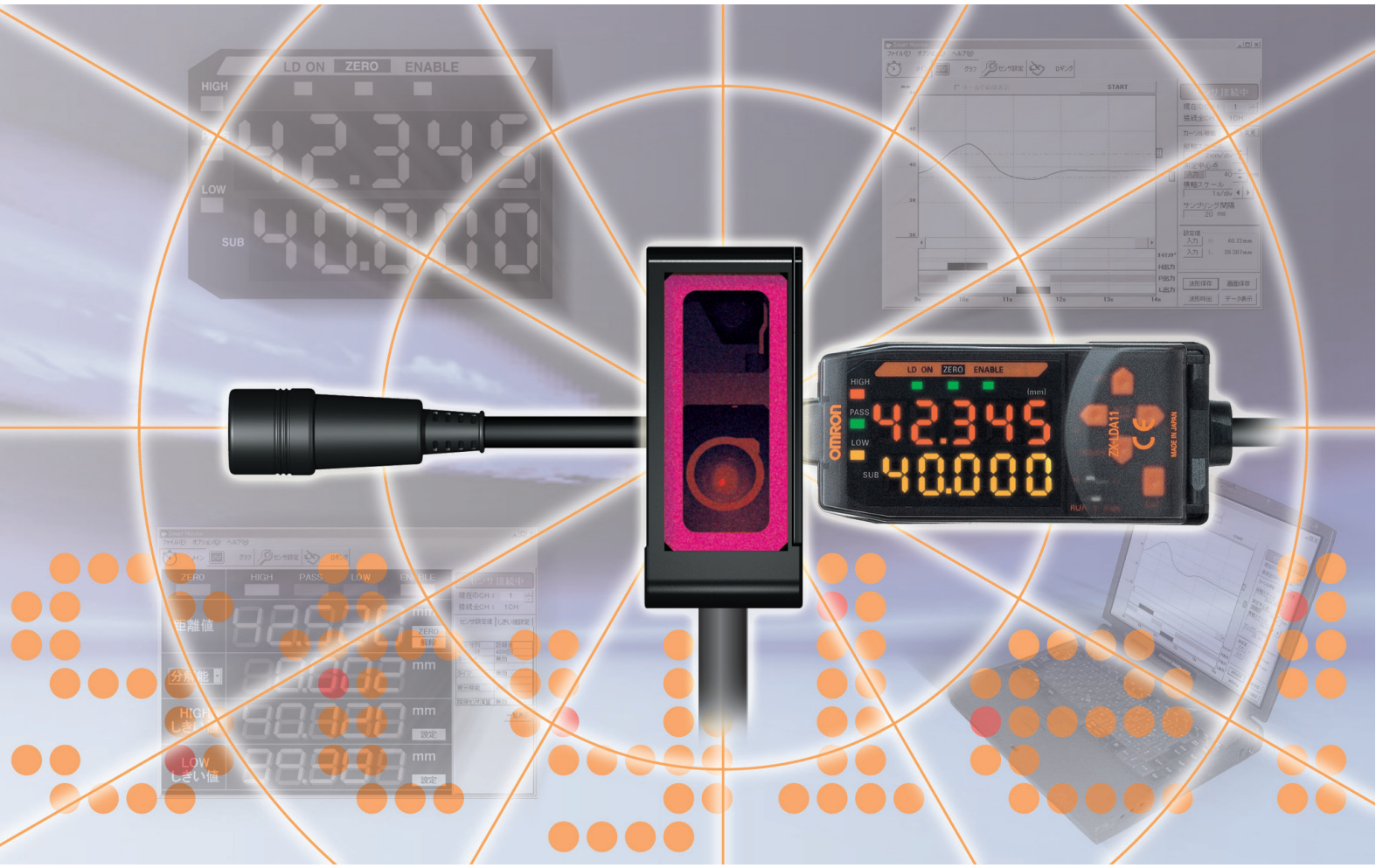
Stylish

The SmartMonitor ZX-series Sensor Setup Tool enables connection with a PC. A stylish new proposal for digital sensing.



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Smart Style!



A New Proposal to All Sensor Users, from OMRON.



Smart Sensor
ZX Series

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Smart Style: Small and Versatile

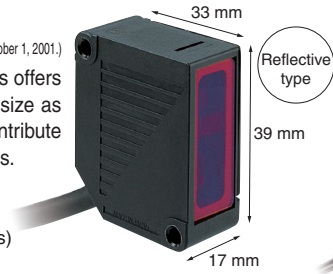
Small in size, big in advantages.



The World's Smallest, Lightest (*As of October 1, 2001.)

In addition to the obvious size difference, the ZX Series offers the world's lightest Sensors. Approximately the same size as a photoelectric sensor, the compact ZX Sensors contribute considerably to space-saving efforts on production sites. Naturally, response speed is also equivalent to that of a photoelectric sensor.

*High-speed sampling: 0.15 ms (response speed: 0.3 ms)





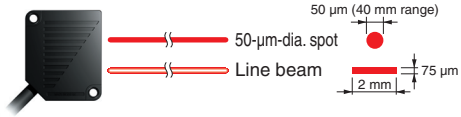
8 Reflective Types and 2 Through-beam Types

Reflective type Class 2 visible light laser

*For 4,096 sampling cycles

Select the model according to the application. Use a spot beam to detect small items, or a line beam for ordinary workpieces. Measurement distance also ranges from 28 to 500 mm, enabling seamless coverage for various detection applications.

Spot form
Two-spot type



Distance range (resolution)
Three ranges

(300 μm) 300 mm ± 200 mm
(16 μm) 100 mm ± 40 mm
(2 μm) 40 mm ± 10 mm

Through-beam type Class 1 visible light laser

*For 32 sampling cycles

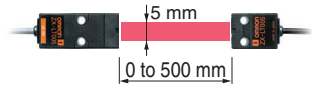
Use a 1-mm-dia. spot for precise positioning, or a 5- to 10-mm-wide screen beam for area detection.

Measuring width and distance range (4-μm resolution)

1-mm-dia. spot



5-mm-wide screen beam

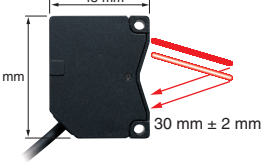


*Differs from the actual beam direction.

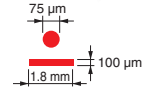
Regular reflection (displacement) Class 2 visible light laser

Ideal for detecting mirror surfaces.

Distance range
(0.25 μm resolution)
One range



Spot form
Two-spot type



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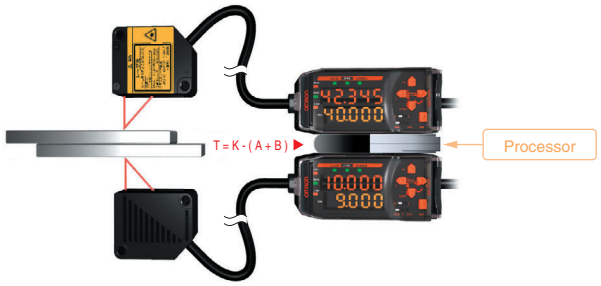
Smart Style: Advanced Functions

Advanced functions respond to evolving needs.

A Full Complement of Practical Functions

Operation Setting with No Need for a Digital Panel Meter patent pending

By simply fitting the Processor between two Amplifiers, the processing results of two Sensors can be displayed on a single Amplifier. Setting parameters only need to be input on one Amplifier.



Equipped with a Laser Lifetime Monitor

Self-detection and Display of Laser Diode Lifetime

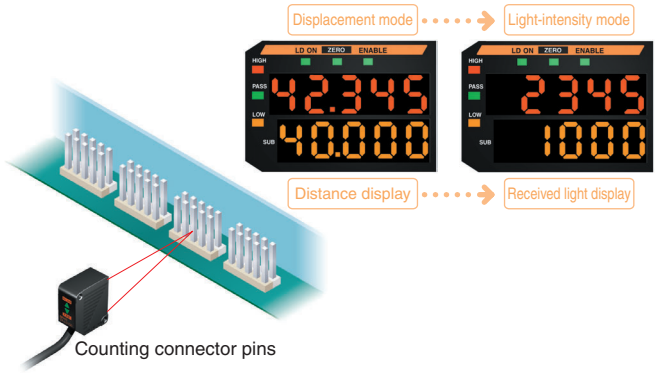
When laser diode deterioration is detected, a warning appears on the main-digital display. Early detection enables timely, trouble-free replacement.



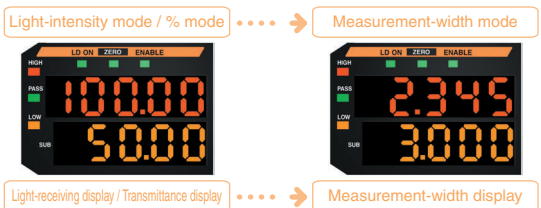
Reflective type

Light-intensity Mode: High-performance Laser Photoelectric Sensor

Light intensity can be detected by the ultra-small spot of the laser beam. By operating as a high-precision laser photoelectric sensor, rather than a displacement meter, this enables detection of small items with backgrounds, as well as color detection. Ideal function settings are possible by using both the displacement mode and the light-intensity mode to meet multiple application needs.



Through-beam type



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Smart Style: Easy Operation

Advanced functionality; easy to operate.

Top Priority Placed on Easy Operation

The ZX Series combines advanced functions and high performance with easy operation. This operating ease is further enhanced by the OMRON E3X-DA-N Digital Fiber Amplifier* interface.

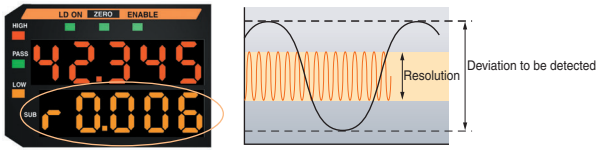


*E3X-DA-N



Easy-to-see Resolution patent pending

The resolution of the desired workpiece can also be easily determined by detection. The resolution display clearly shows the margin available for the threshold setting, to allow accurate judgement of detectability.



Comprehensive Teaching Functions

Position/2-point/Automatic

Three teaching functions rival the performance of photoelectric sensors.

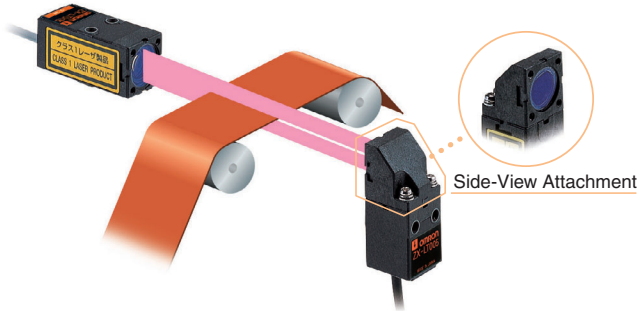
Position teaching
For high-precision positioning applications.

2-point teaching
For detecting ultra-small level differences between two points.

Automatic teaching
For teaching without stopping the workpiece.

Flexible Mounting Direction

The Side-View Attachment (sold separately) enables a variety of mounting possibilities.



Other Easy-to-use Functions

Scaling, Reverse Display, Display-OFF Mode, ECO Mode, Display Digit Change, Measurement (Timer/Hold Functions), Threshold Setting, I/O Setting, Mutual Interference (when using the Processor), Function Lock, Initial Reset, Zero Reset, Derivative Function, Sensitivity Selection, Monitor Focus, etc.

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Smart Style!

The New Smart Monitor ZX-series Sensor Setup Tool

Smart Style: Intelligent Operation

New sensor proposals for IT applications. Available soon



PC Connection Takes Full Advantage of Sensor Performance

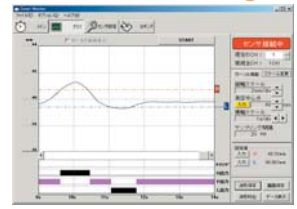
Use of the PC screen greatly enhances the panel display. Unlike conventional systems, the detection results from applications such as waveform monitoring and data logging can also be easily processed.



Waveform Monitoring

Easy waveform monitoring replaces the conventional oscilloscope. Drag & drop threshold setting and other easy-to-use functions further enhance operation.

Waveform monitoring



Flexible Quality Control

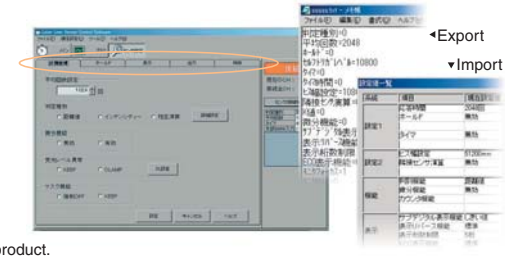
Data Logging

The ability to log detection data and manage the system history enables efficient and effective quality control, and aids in determining necessary countermeasures.



List Display Simplifies Setup

Complicated settings can be easily made with only the Amplifier panel while referring to function menus. Settings can also be imported and exported as text data.



*The screen image may differ from that of the actual product.

PC Software Specifications

Monitoring Digital Values

- Setting differential direct threshold values
- Teaching settings

Waveform monitoring

- Waveform collection
- Waveform observation and editing
- Waveform saving and loading

Data Logging

- Compilation settings
- Microsoft Excel compatible

Configurator Functions

- Setting Amplifier functions (actual measurement scaling, input scaling, etc.)
- Saving and loading Amplifier setting conditions

*Microsoft Excel is a trademark of Microsoft Corporation of the U.S.

and...

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...more!



For details, look here.

http://www.fa.omron.co.jp/smart/

(Available only in Japanese now)

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