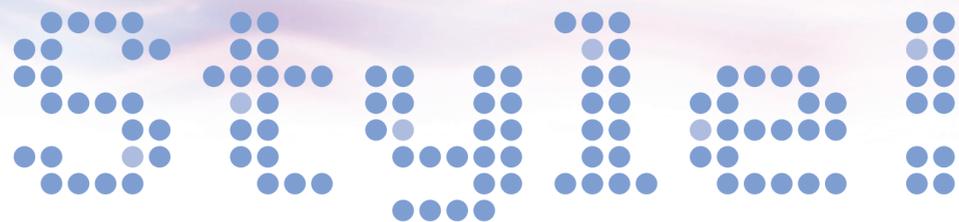


Smart Style!

for Even More Applications



Tough and Compact for a Wide Variety of Applications



Smart Sensors
Inductive Displacement Type ZX Series

Smart Sensor Series

8 Reflective and 3 Through-beam Laser Types



For details, look here.
<http://www.fa.omron.co.jp/smart/>
(Available only in Japanese now)

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Sensing Devices and Components Division H.Q.
Shiokoji Horikawa, Shimogyo-ku,
Kyoto, 600-8530 Japan
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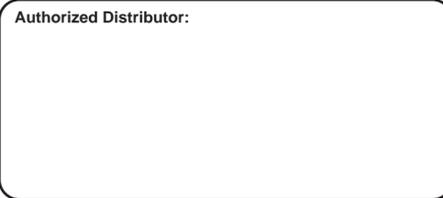
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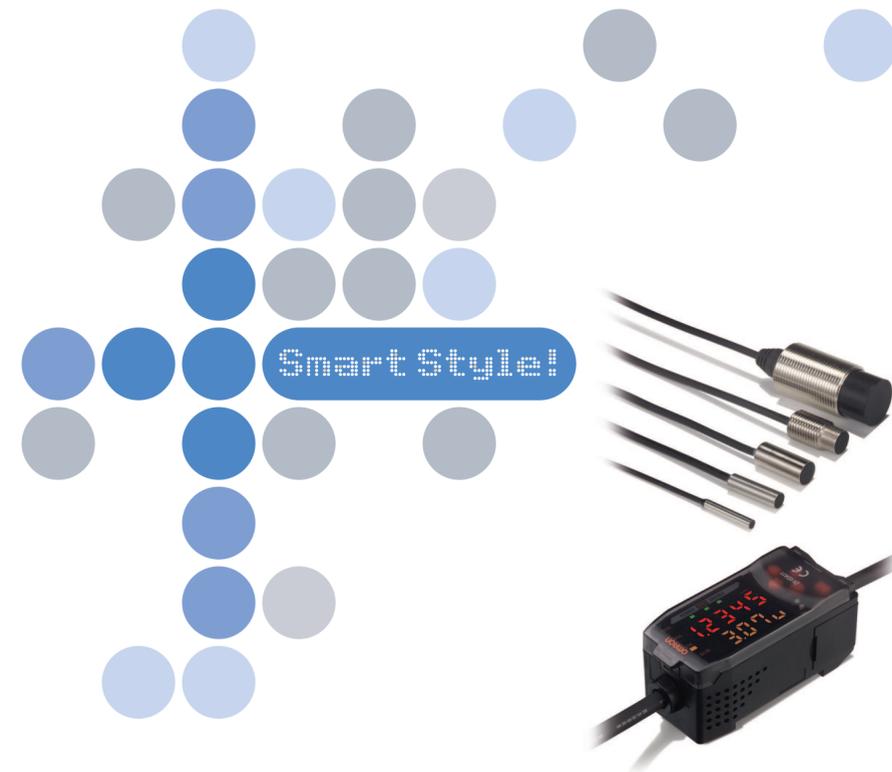
Authorized Distributor:



Smart Sensors Inductive Displacement Type
ZX Series

OMRON

New Smart Sensors with Eddy Current Method



Smart Style!

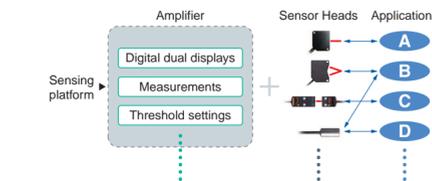
New Inductive Displacement Sensors



The Concept behind Smart Sensors

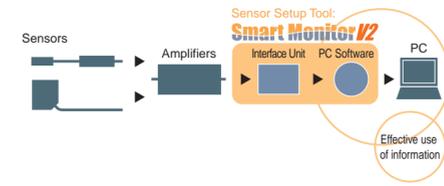
Smart

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



Stylish

The ZX-series Sensor Setup Tool, SmartMonitor V2, enables connecting to a personal computer (PC). A new style for digital sensing.



Variations for Smart Style!

Various Sensor Heads for All Applications

More Efficient Maintenance

Complete Compatibility between Sensor Heads and Amplifier Units
The Amplifier Unit can be used as is when replacing damaged Sensor Heads or changing the Sensor Head for a differential measurement distance.



Wide Selection of Sensor Heads

3-mm-Diameter Sensor Heads – Smallest in this Class
To detect gaps of small objects or for applications requiring many Sensor Heads in a row.



Models with stainless steel Protective Spiral Tubes are also available.



Sensor Head Cords Extendable to 10 m

The distance between the Amplifier Units and Sensor Heads can be extended to 10 m by using a ZX-XC□A Cable (sold separately).

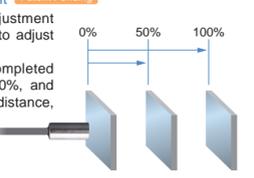


Advance to Smart Style!

Advanced Functions for Any Application

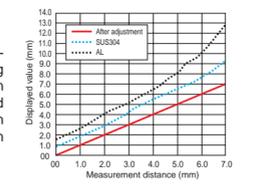
Complete Range of Useful Functions

Simple Linearity Adjustment Patent Pending
Adjustments using the adjustment knob are no longer required to adjust linearity. Linearity adjustment is completed simply by teaching at 0%, 50%, and 100% of the measurement distance, greatly reducing setting time.



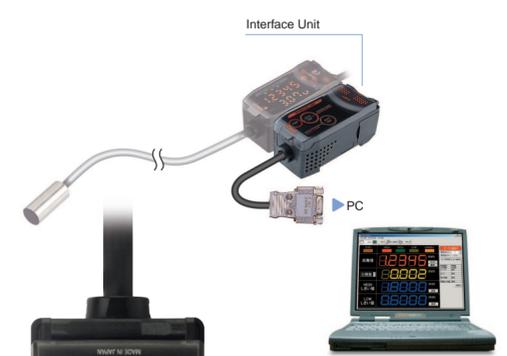
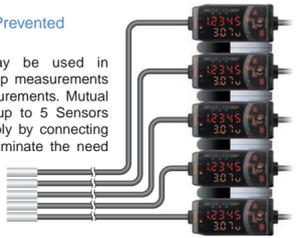
Suitable for Non-ferrous Metals Also

Linearity is worse for non-ferrous than ferrous sensing objects. A material selection function has been developed to improve linearity with stainless steel and aluminum sensing objects.



Mutual Interference Prevented for up to 5 Sensors

Multiple Sensors may be used in confined spaces for gap measurements or multiple-point measurements. Mutual interference between up to 5 Sensors can be prevented simply by connecting Calculating Units to eliminate the need for timing signals on the user side.



Sensor Setup Tool Smart Monitor V2 for ZX-series Smart Sensors

SmartMonitor V2 is the latest version of the Smart Monitor and is capable of making settings and logging data for ZX-L-series and ZX-E-series Sensors.



Data Logging and Waveform Display

Logs detected data. Also displays data in waveform during logging.

Waveform Monitoring

Waveforms can be easily monitored and threshold values can be set just by dragging and dropping.

Sensor Settings

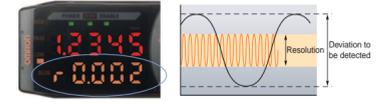
Settings difficult to make on the Amplifier can be made simply while browsing the function menus.

One-shot Waveform

High-speed waveforms can be obtained and displayed in one-shot operation.

Easy Resolution Display

The resolution can be displayed simply by detecting the workpiece to be tested. It is easy to learn the margin for threshold values with this resolution display, allowing accurate judgements about whether detection is possible.



Calculation Settings without Digital Panel Data

The calculation results from two Sensors can be displayed on the Amplifier for one Sensor simply by placing a Calculating Unit between the Amplifier Units. The required parameters need to be input only into one Amplifier Unit.



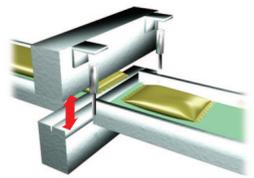
Success with Smart Style!

Advanced functions made simple.
That is the essence of Smart Style.

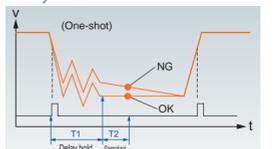
Applications with Smart Style!

Functions to Support a Wide Variety of Applications

Minute Gap Detection

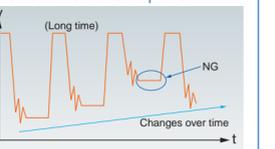


Delay Hold



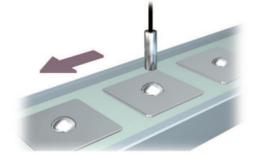
Starts sampling after a specified time delay from the timing signal to obtain a stable sampling point. Can be used to avoid bounding during machine startup.

Previous Value Comparison

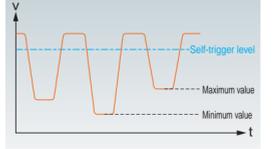


Gradual changes in measurements due to machine temperature changes or other factors can be ignored and only sudden changes detected and judged.

Height and Step Detection

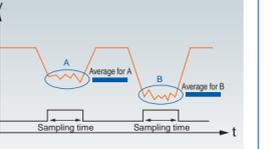


Automatic Teaching



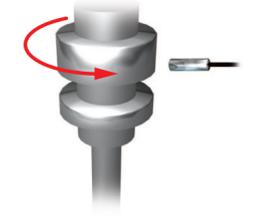
When automatic teaching is executed, the maximum and minimum values for the sensing object are measured and displayed on the Amplifier Unit. Automatic teaching is useful when there is no standard sensing object.

Average Hold

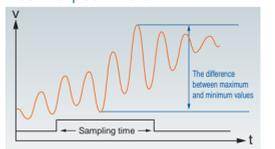


When the average hold function is executed, the average value for the sampling period is calculated and displayed on the Amplifier Unit. The average hold function is useful for when the surface of the sensing object is not uniform.

Vibration and Surface Movement Measurements



Peak-to-peak Hold



Measures the difference between the maximum and minimum values during the sampling time and displays it on the Amplifier Unit. The peak-to-peak hold function enables easy measurement of surface movement and eccentricity.