

Smart Sensors

Inductive Displacement Type

ZX Series

Smart Sensor Series



Broader Range, Even Smarter



Contact Types for High-Precision

For details, look here.

http://www.fa.omron.co.jp/product/sensor/

(Available only in Japanese now)

OMRON Corporation Industrial Automation Company

Sensing Devices Division H.Q. Application Sensors Division

Shiokoji Horikawa, Shimogyo-ku, Kyoto, 600-8530 Japan Tel: (81)75-344-7068/Fax: (81)75-344-7107

Regional Headquarters

OMRON EUROPE B.V.

Sensor Business Unit, Carl-Benz-Str. 4, D-71154 Nufringen, Germany

Tel: (49)7032-811-0/Fax: (49)7032-811-199

OMRON ELECTRONICS LLC

1 East Commerce Drive, Schaumburg, IL 60173 U.S.A. Tel: (1)847-843-7900/Fax: (1)847-843-8568

OMRON ASIA PACIFIC PTE. LTD.

83 Clemenceau Avenue, #11-01, UE Square, 239920 Singapore

Cat. No. E330-E1-02A

Tel: (65)6835-3011/Fax: (65)6835-2711

OMRON (CHINA) CO., LTD.

Room 2211, Bank of China Tower, 200 Yin Cheng Road (M), Shanghai, 200120 China Tel: (86)21-5037-2222/Fax: (86)21-5037-2200 This document provides information mainly for selecting suitable models. Please read the Instruction Sheet or Manual for information that the user must understand and accept before purchase, including information on warranty, limitations of liability, and precautions.

Authorized Distributor:



Note: Specifications subject to change without notice.

Printed in Japan 0106-0.1M(0902) (H)



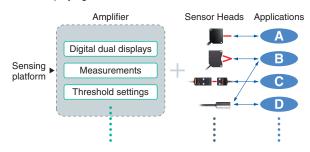
New Inductive Displacement Sensors for Even More Applications



The Concept behind Smart Sensors

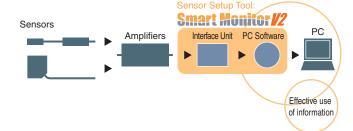
Smart

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.



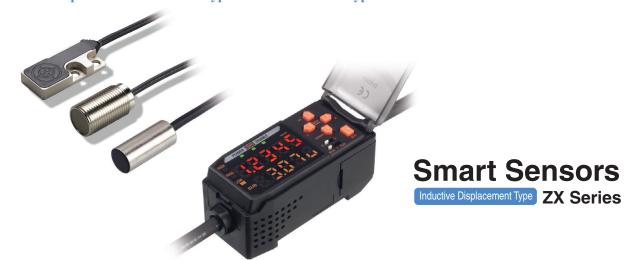
Stylish

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



Tough and Compact for a Wide Variety of Applications

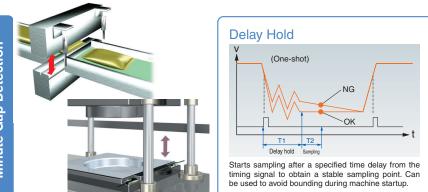
Series Expanded to Include Flat Types and Heat-resistive Types that Can Tolerate 200°C

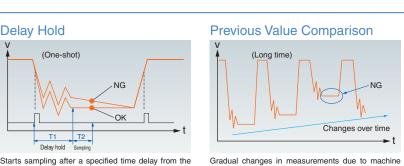


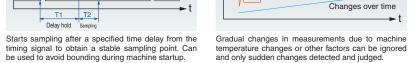


Applications with with was a second of the second of the

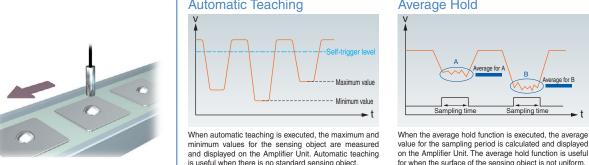
Functions to Support a Wide Variety of Applications

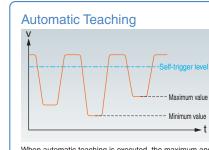


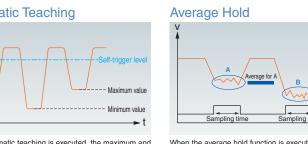


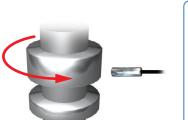


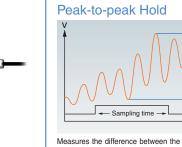
for when the surface of the sensing object is not uniform.

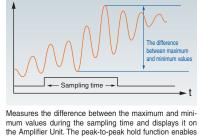


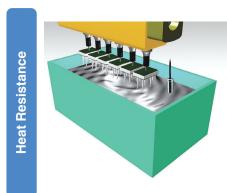


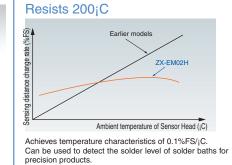












Variations

for

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

Flat and Heat-resistive Types Added to Series Suitable for applications with limited space for installation or



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).

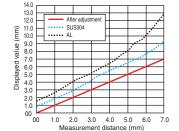


Complete Range of Useful Functions

Simple Linearity Adjustment Patent Pending Adjustments using the adjustment knob are no longer required to adjust 0% 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 nonferrous than ferrous sensing objects. A material selection function has been developed to improve linearity with stainless steel and aluminum sensing objects.



Advance

to

Advanced Functions for Any Application

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.

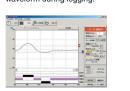


Sensor Setup Tool Smart Monitor 1/2 for ZX-series Smart Sensors

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

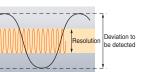


Waveform Monitoring Waveforms can be easily monitored and threshold High-speed waveforms can be obtained values can be set just by dragging and dropping. and displayed in one-shot operation

Easy Resolution Display Patent Pending

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 Patent Pending

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.

Succeess

with

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

