Smart Sensors (Inductive Displacement Type)

ZX-E Series

High-accuracy Detection of Metal Workpiece Displacement

- Sensor Heads support a wide variety of applications.
- Linearity can be adjusted for non-ferrous metals, such as SUS and aluminum, using the material selection function.
- Simple linearity compensation (teaching).
- Easily perform calculation for two Sensors by using a Calculating Unit.
- Prevent mutual interference for up to five Units by using a Calculating Unit

Ordering Information

Sensors

Sensor Heads (Refer to Dimensions on page 11.)

Shape	Dimensions	Sensing distance	Resolution *1	Model
Cylindrical	3 dia. x 18 mm	0.5 mm	1 μm	ZX-EDR5T
	5.4 dia. x 18 mm	1 mm		ZX-ED01T *2
	8 dia. x 22 mm	2 mm		ZX-ED02T *2
Screw-shaped	M10 x 22 mm			ZX-EM02T *2
	M18 x 46.3 mm	7 mm		ZX-EM07MT *2
Flat	30 x 14 x 4.8 mm	4 mm		ZX-EV04T *2 *3
Heat-resistant, cylindrical	M12 x 22 mm	2 mm		ZX-EM02HT *4

*1: For an average count of 4,096.

*2: Models with Protective Spiral Tubes are also available. Add a suffix of "-S" to the above model numbers when ordering. (Example: ZX-ED01T-S) For detailed dimensions of the Protective Spiral Tube, refer to the information on the E39-F32A on the OMRON website.

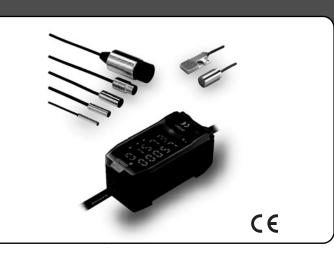
*3: Be sure to use ZX-EDA Amplifier Unit version 1,200 or later with the ZX-EV04.

*4: Be sure to use ZX-EDA Amplifier Unit version 1,300 or later with the ZX-EM02H.

Amplifier Units (Refer to Dimensions on page 13.)

Appearance	Power supply	Output type	Model
1	DC	NPN	ZX-EDA11
		PNP	ZX-EDA41

Note: Compatible connection with the Sensor Head.



Accessories (Order Separately)

Calculating Unit (Refer to Dimensions on page 14.)

Appearance	Model
	ZX-CAL2

Amplifier Mounting Brackets

A ZX-XBE1 is provided with the Sensor. Order an Amplifier Mounting Bracket separately if required.

(Refer to Dimensions on page 14.)

Appearance	Model	Remarks
	ZX-XBE1	Attached to each Sensor Head
	ZX-XBE2	For DIN track mounting

Logging Tool for Personal Computers

(Refer to Dimensions on page 15.)

Appearance	Nam	Model	
	Communications Interface Unit	RS-232C	ZX-SF11
		USB	ZX-SF21
	Smart Monitor (Logging Software + Function Setting Software)		ZX-SW11EV3 (See note 1.)

Specifications

Sensor Heads

		Model	ZX-EDR5T	ZX-ED01T	ZX-ED02T/ EM02T	ZX-EM07MT	ZX-EV04T	ZX-EM02H
Measureme	ent rang	е	0 to 0.5 mm	0 to 1 mm	0 to 2 mm	0 to 7 mm	0 to 4 mm	0 to 2 mm
Sensing object			Magnetic metals (Measurement ranges and linearities are different for non-magnetic metals. Refer to <i>En- gineering Data</i> on page 4.)					
Standard re	eference	object	18×18×3 mm		30×30×3 mm	60×60×3 mm		45×45×3 mm
			Material: ferrous (S50C)					
Resolution	*1		1 μm					
Linearity *2			±0.5% F.S.					±1.0% F.S. *5
Linear outp			Same as measure	ement range.				
Temperatur (including /			0.15% F.S./°C 0.07% F.S./°C 0.1			0.1% F.S./°C		
	Operatin	•	······································			-10 to 200°C		
temperature	Storage	*4	ing or condensation)	–20 to 70°C (wi	th no icing or con	densation)		(with no icing or condensation)
Ambient hu	imidity		Operating and sto	rage: 35% to 85	% (with no conde	nsation)		
Insulation r	resistan	се	50 M Ω min. (at 50	0 DC)				
Dielectric s	trength		1,000 VAC, 50/60	Hz for 1 min bet	ween charged pa	irts and case		
		e (destruction)	10 to 55 Hz with 1			ach in X, Y, and Z	Z directions	
		destruction)	500 m/s ² , 3 times	, ,				
-		on (Sensor Head)		IEC60529, IP67				IEC60529, IP60 *6
Connection		-	Connector relay (s		ngth: 2 m)		-	-
Weight (pa		,		Approx. 140 g		Approx. 160 g	Approx. 130 g	Approx. 160 g
	Sensor Head			Stainless steel	Brass		Zinc (nickel-plated)	Brass
	Tieau	Sensing surface			PEEK			
		Tightening nut		-) (except ZX-ED02T)		Brass (nickel-plated)
		Toothed washer			Iron (zinc-plated)			
	Preampli	fier	PES					
Accessories Amplifier Mounting Brackets (ZX-XBE1), Instruction Manual								

Setup Tool for Personal Computer

Appearance	Name	Model
+ -0-		ZX-SFW11EV3 (See note 1.)

Note 1. The ZX-SFW11EV3 or ZX-SW11EV3 is required to use the Smart Monitor with the ZX-LDA11-N/41-N. Earlier versions cannot be used.

 The Smart Monitor Basic does not have a logging function. Other than the logging function, the Smart Monitor Basic supports the same functions as the Smart Monitor.

Cables with Connectors on Both Ends (for

Extension) (Refer to Dimensions on page 15.)*

Cable length	Model	Quantity
1 m	ZX-XC1A	1
4 m	ZX-XC4A	
8 m	ZX-XC8A	

* Robot cable models are also available. The model numbers are ZX-XC $\square R.$

Bank Unit

Appearance	Model
1-42345	ZX-SB11

*1:Resolution: The resolution is the deviation (±3σ) in the linear output when connected to the ZX-EDA Amplifier Unit. The above values indicate the deviations observed 30 minutes after the power is turned ON.

(The resolution is measured with OMRON's standard reference object at 1/2 of the measurement range with the ZX-EDA set for the maximum average count of 4,096 per period.)

The resolution is given at the repeat accuracy for a stationary workpiece, and is not an indication of the distance accuracy. The resolution may be adversely affected under strong electromagnetic fields.

- *2: Linearity: The linearity is given as the error in an ideal straight line displacement output when measuring the standard reference object. The linearity and measurement values vary with the object being measured.
- *3: Temperature characteristic: The temperature characteristic is measured with OMRON's standard reference object at 1/2 of the measurement range.
- *4: The ambient temperature given is only for the sensor head. It is -10 to 60°C for the preamp.
- *5: The value given is for an ambient temperature of 25°C.
- *6: Do not use in moist environments because the case is not waterproof.

Amplifier Units

Model	ZX-EDA11	ZX-EDA41	
Measurement period *1	150 μs		
Possible average count settings	1, 2, 4, 8, 16, 32, 64, 128, 256, 512, 1,024, 2,048, or 4,096		
Linear output *2	Current output: 4 to 20 mA/F.S., Max. load resistance: 300 Ω		
	Voltage output: ± 4 V (\pm 5 V, 1 to 5 V *3), Output impedance: 100 Ω		
Judgement outputs	NPN open-collector outputs, 30 VDC, 50 mA max.	PNP open-collector outputs, 30 VDC, 50 mA max.	
(3 outputs: HIGH/PASS/LOW)	Residual voltage: 1.2 V max.	Residual voltage: 2 V max.	
Zero reset input, timing input, reset input, judgement output hold input	ON: Short-circuited with 0-V terminal or 1.5 V or less	ON: Supply voltage short-circuited or supply volt- age within 1.5 V	
	OFF: Open (leakage current: 0.1 mA max.)	OFF: Open (leakage current: 0.1 mA max.)	
Function	 Measurement value display Linearity adjustment (materials selection) Display reverse Display of display digit changes Bottom hold, peak-to-peak hold Average hold Delay hold Delay hold Delay hold Delay hold Delay timer OFF-delay timer Non-measurement setting Automatic teaching Hysteresis width setting Reset input Judgement output hold input Monitor focus Linear output correction K-(A+B) calculation *4 Sensor disconnection detection Zero reset indicator 		
Indications	Judgement indicators: High (orange), pass (green), low (yellow), 7-segment main digital display (red), 7-segment sub-digital display (yellow), power ON (green), zero reset (green), enable (green)		
Voltage influence (including Sensor)	0.5% F.S. of linear output value at $\pm 20\%$ of power supply voltage		
Power supply voltage	12 to 24 VDC $\pm 10\%$, Ripple (p-p): 10% max.		
Current consumption	140 mA max. with power supply voltage of 24 VDC	, ,	
Ambient temperature	Operating and storage: 0 to 50°C (with no icing or co	,	
Ambient humidity	Operating and storage: 35% to 85% (with no conder	nsation)	
Insulation resistance	20 MΩ min. (at 500 DC)		
Dielectric strength	1,000 VAC, 50/60 Hz for 1 min		
Vibration resistance (destruction)	10 to 150 Hz with 0.7-mm double amplitude for 80 m		
Shock resistance (destruction)	300 m/s ² , 3 times each in 6 directions (up, down, lef	t, right, forward, backward)	
Connection method	Prewired (standard cable length: 2 m)		
Weight (packed state)	Approx. 350 g		
Materials	Case: PBT (polybutylene terephthalate), Cover: Poly	ycarbonate	
Accessories	Instruction Manual		

*1:The response time for the first linear output or judgment output is calculated as follows (with fixed sensitivity): Measurement period × (Average count setting + 1). The response time for the second and later outputs is the measurement period specified in the table.

*2: The output can be switched between a current output and voltage output using a switch on the bottom of the Amplifier Unit.

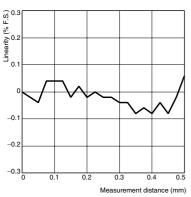
*3: Setting is possible via the monitor focus function.

*4: A Calculating Unit (ZX-CAL2) is required.

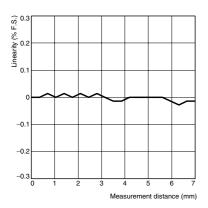
Engineering Data (Typical)

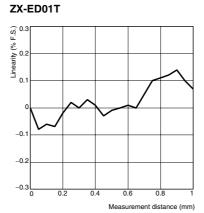
Measurement Distance vs. Linearity (with Linearity Adjusted for Standard Sensing Object)

ZX-EDR5T

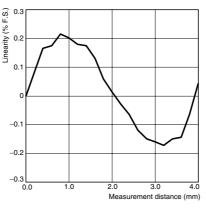


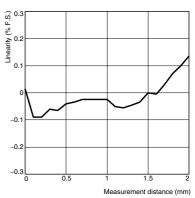






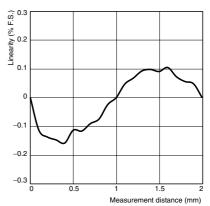






ZX-ED02T/ZX-EM02T





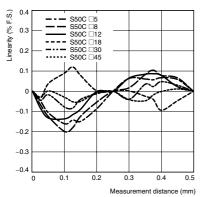
Size of Sensing Object vs. Linearity (with Linearity Adjusted for Each Sensing Object) ZX-EDR5T ZX-ED01T

0.6

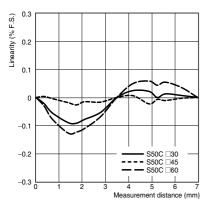
0.5

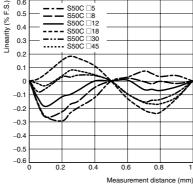
0.4

_ -



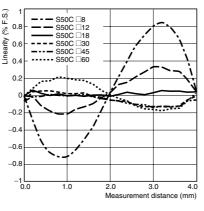
ZX-EM07MT





5 8







ZX-ED02T/ZX-EM02T

S50C S50C S50C S50C S50C S50C

0.5

□5 □8 □12

8-----

1.5

Measurement distance (mm)

(; 1.0 ⊗ ⊔ ⊗ 0.8

0.4

0.2

-0.2

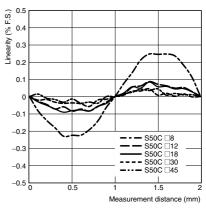
-0.4

-0.6

-0.8

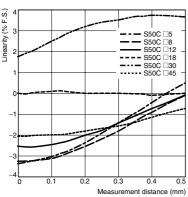
-1.0

Linearity 0.6

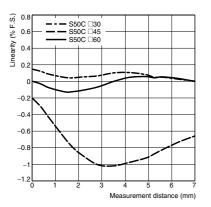


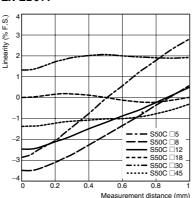
ZX-E Series Smart Sensors (Inductive Displacement Type)

Size of Sensing Object vs. Linearity (with Linearity Adjusted for Standard Sensing Object) ZX-EDR5T ZX-ED01T

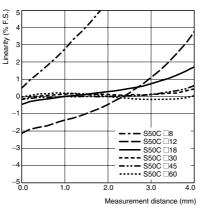




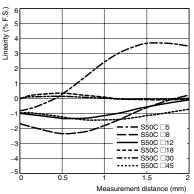




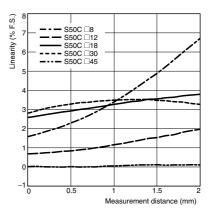




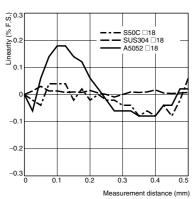
ZX-ED02T/ZX-EM02T



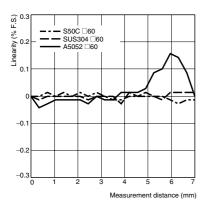
ZX-EM02HT

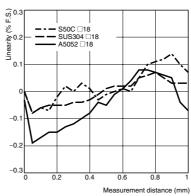


Material of Sensing Object vs. Linearity (with Linearity Adjusted for Each Sensing Object) ZX-EDR5T ZX-ED01T

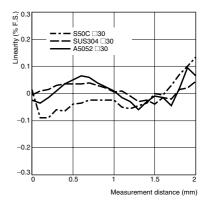


ZX-EM07MT

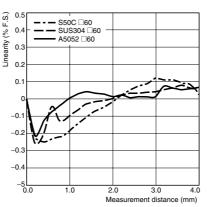




ZX-ED02T/ZX-EM02T

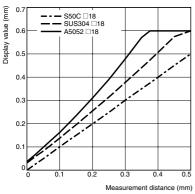


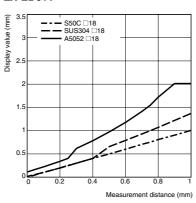
ZX-EV04T

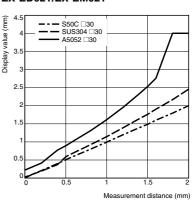


ZX-E Series Smart Sensors (Inductive Displacement Type)

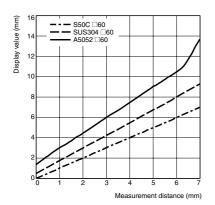
Material of Sensing Object vs. Linearity (with Linearity Adjusted for Standard Sensing Object and Iron) ZX-EDR5T ZX-ED01T ZX-ED02T/ZX-EM02T



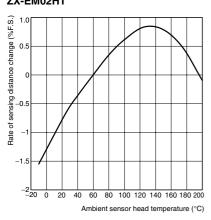




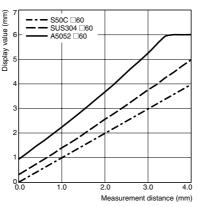


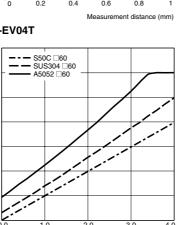


Temperature Characteristics ZX-EM02HT

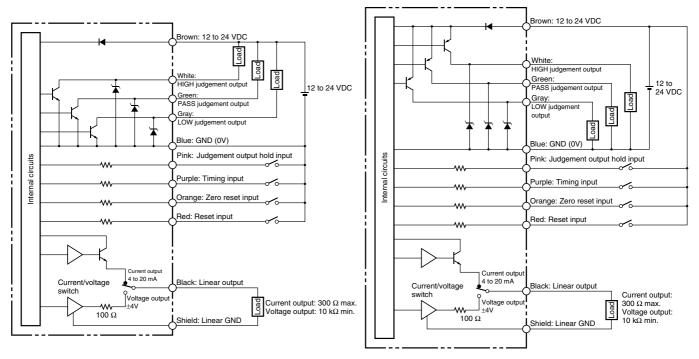






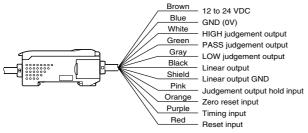


NPN Amplifier Unit: ZX-EDA11



PNP Amplifier Unit: ZX-EDA41

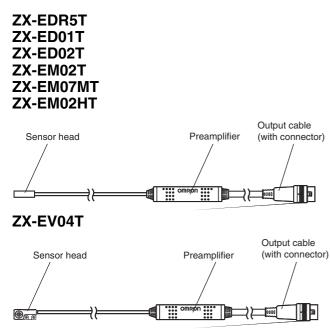
Connections: Amplifier Unit



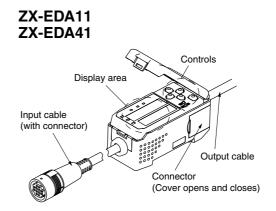
- Note 1. Use a separate stabilized power supply for the Amplifier Unit, particularly when high resolution is required.
 - Wire the Unit correctly. Incorrect wiring may result in damage to the Unit. (Do not allow wiring, particularly the linear output, to come into contact with other lines.)
 - 3. Use the blue (0-V) line for the power supply and use the shield wire (linear output ground) together with the black (linear output) line for linear output. Each of these grounds must be used for the designed purpose. When not using the linear output, connect the linear output ground to the 0-V ground.

Part Names

<u>Sensors</u>

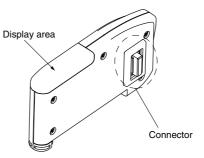


Amplifier Units



Calculating Unit

ZX-CAL2



Design Precautions

Conform to the specified ratings and performance. Refer to *Specifications* on page 2 for details.

Objects of certain materials or shapes may not be detectable, or the detection accuracy may not be sufficiently high.

Environment

Do not operate the product in locations subject to flammable or explosive gases.

In order to ensure safe operation and maintenance, do not install the product in the vicinity of high-voltage devices or power equipment.

■ Wiring

Do not use the product at voltages exceeding the rated values. Doing so may result in damage.

Do not connect the product to an AC power supply or connect the power supply in reverse.

Do not short-circuit the load for open-collector output.

Correct Use <u>Design Precautions</u>

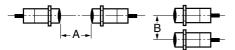
Power Supplies

Allow a warm-up period of approximately 30 minutes after turning ON the power supply.

Mutual Interference

Up to 5 Sensor Heads can be used together by connecting the ZX-CAL2 Calculating Unit between Amplifier Units.

When installing Sensor Heads facing each other or in parallel, separate them by the minimum distances given in the table below.



Mutual Interference

Model	Α	В
ZX-EDR5T	5 mm	20 (3.1) mm
ZX-ED01T	10 mm	50 (5.4) mm
ZX-ED02T	20 mm	50 (8) mm
ZX-EM02T	20 mm	50 (10) mm
ZX-EM07MT	100 mm	150 (30) mm
ZX-EV04T	80 mm	50 (14) mm
ZX-EM02HT	20 mm	50 (12) mm

Note: The figures in parentheses apply when the mutual interference prevention function is used.

Compatibility

Sensors and Amplifier Units are mutually compatible. Sensors can be added or replaced individually.

Influence of High-frequency Electromagnetic Fields

Using the product in the vicinity of devices that generate high-frequency electromagnetic fields, such as ultrasonic cleaning equipment, high-frequency generators, transceivers, mobile phones, and inverters, may result in malfunction.

Calculating Unit

Do not lay the power cable for the product together with or in the same duct as high-voltage lines or power lines. Doing so may result in incorrect operation or damage due to induction.

Do not connect or disconnect connectors while the power is ON. Doing so may result in damage.

Adjustment

Setting

When setting threshold values, ensure that the Amplifier Unit's judgement output hold input line is ON so that there is no judgement output to external devices.

Other Precautions

Do not attempt to disassemble, repair, or modify the product.

Dispose of the product using standard procedures for industrial waste.

These Sensors are not compatible with the ZX-L \Box Smart Sensors (laser type). Do not connect combinations of ZX-E \Box Smart Sensors and ZX-T \Box Smart Sensors.

Influence of Metallic Objects

When installing the product, separate it from metallic objects by the distances shown below.



Influence of Metallic Objects

Model	d	D
ZX-EDR5T	8 mm	9 mm
ZX-ED01T	10 mm	
ZX-ED02T/EM02T	12 mm	
ZX-EM07MT	55 mm	20 mm
ZX-EV04T	16 imes 32 mm	4.8 mm
ZX-EM02HT	18 mm	9 mm

<u>Wiring</u>

Wiring Check

After wiring is completed, before turning ON the power, confirm that the power supply is connected correctly, that there are no faulty connections, such as load short-circuits, and that the load current is correct. Incorrect wiring may result in failure.

Cable Extension

Do not extend the cable for the Sensor and the Amplifier Unit to a length exceeding 10 m. Use a ZX-XC A Extension Cable (sold separately) to extend the Sensor's cable. Extend the Amplifier Unit's cable using a shielded cable of the same type.

Power Supply

When using a commercially available switching regulator, ground the FG (frame ground) terminal.

If the power supply line is subject to surges, connect a surge absorber that meets the conditions of the operating environment.

When using a Calculating Unit, connect the linear output ground of the corresponding Amplifier Unit.

Connectors

Do not connect or disconnect connectors while the power is ON.

Be sure hold to connectors by the cover when connecting or disconnecting.

<u>Mounting</u> Handling

When mounting the Sensor Head, do not apply excessive shock by, for example, using a hammer. Doing so may result in damage or a reduction in the level of water-proofing. Also, there are screw-shaped models that require a toothed washer to allow for a tolerance in the tightening torque for the nut.

When using a heat-resistant model like the ZX-EM02HT, develop designs that account for thermal expansion due to rising sensing object temperature so the sensing object will never touch the sensing surface. Also note that any sudden rise in temperature will shorten the service life of the product.

Tightening Torque

Do not apply excessive torque when tightening the nut. Use a toothed washer if necessary.

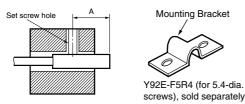


Model	Tightening torque
ZX-EM02T	15 N·m
ZX-EM07MT	
ZX-EM02HT	59 N∙m

Note: The above figure applies for use with a toothed washer.

Mounting Cylindrical Models:

Tighten set screws with a tightening torque of 0.2 $\ensuremath{\text{N}\xspace}\xspace$ max.



Model	Α
ZX-EDR5T	9 to 18 mm
ZX-ED01T	
ZX-ED02T	11 to 22 mm

Installation Location

Do not install the product in the following locations.

- Locations subject to temperatures outside the specified range
- Locations subject to condensation due to sudden temperature changes
- Locations subject to humidity levels outside range 35% to 85%
- Locations subject to corrosive or flammable gases
- Locations subject to dust, salts, or metallic powder.
- Locations directly subject to vibrations and shocks
- Locations subject to direct sunlight
- Locations subject to splashes of water, oil, or chemicals
 Locations subject to strong electromagnetic or electrical fields

Maintenance and Inspection

- Be sure to turn OFF the power supply before adjusting or removing the Sensor Head.
- Cleaning:

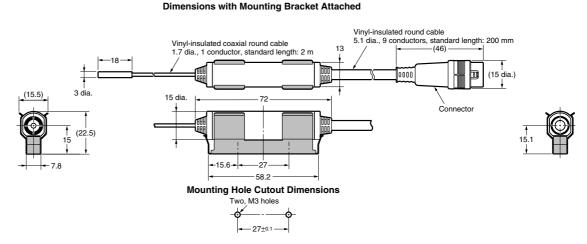
Do not use thinners, benzine, acetone, or kerosene for cleaning.

Dimensions

Sensors

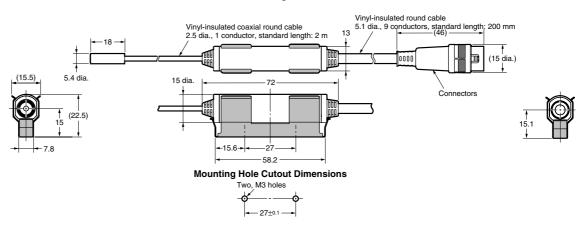
Sensor Heads

ZX-EDR5T



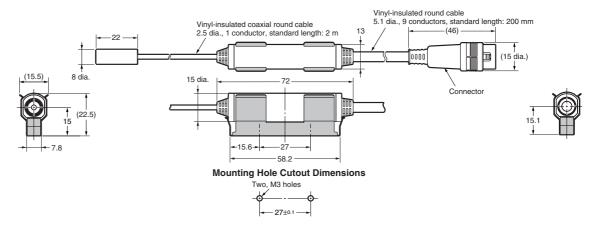
ZX-ED01T

Dimensions with Mounting Bracket Attached

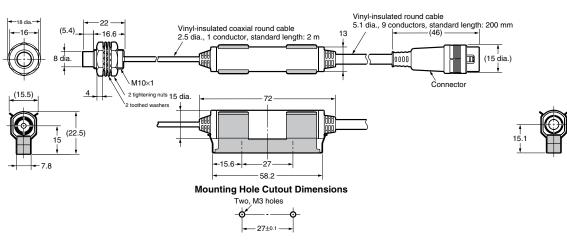


ZX-ED02T

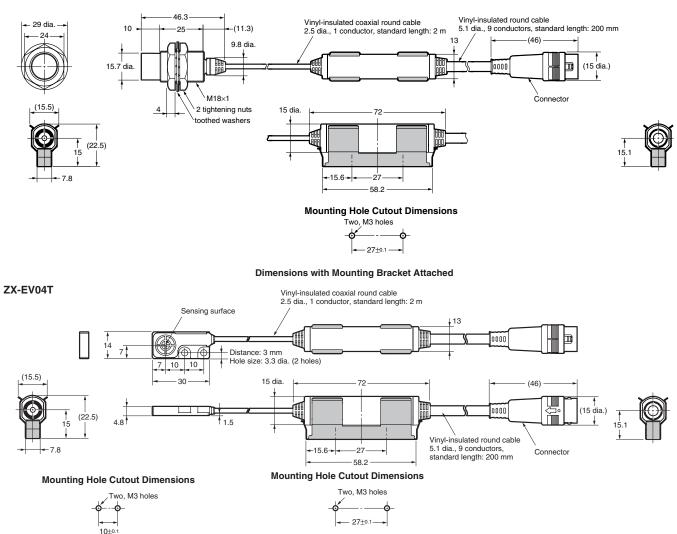
Dimensions with Mounting Bracket Attached



Dimensions with Mounting Bracket Attached

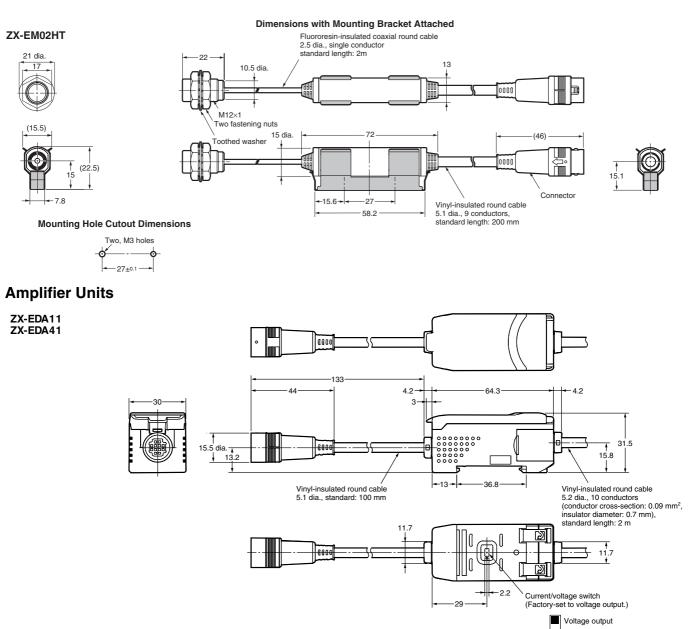


ZX-EM07MT



Dimensions with Mounting Bracket Attached

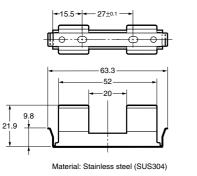
OMRON



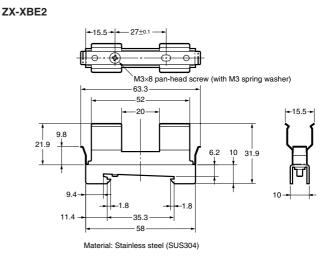
Accessories (Sold Separately)

Preamplifier Mounting Bracket

ZX-XBE1

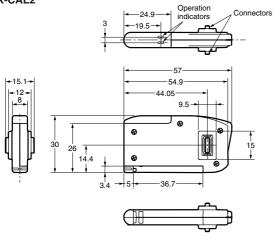


+15.5-+



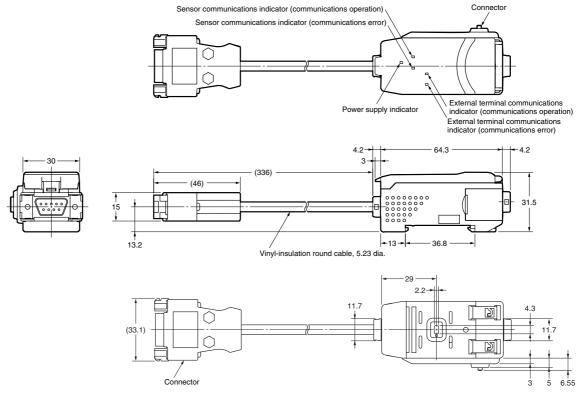
Calculating Unit

ZX-CAL2



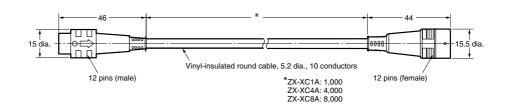
ZX-series Communications Interface Unit





Cables with Connectors on Both Ends (for Extension)

ZX-XC1A (1 m) ZX-XC4A (4 m) ZX-XC8A (8 m)



ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

This document provides information mainly for selecting suitable models. Please read the manual carefully for information that the user must understand and accept before purchase, including information on warranty, limitations of liability, and precautions.

CSM_6_1_0911 E331-E1

In the interest of product improvement, specifications are subject to change without notice.

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

Read and Understand This Catalog

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

Warranty and Limitations of Liability

WARRANTY

OMRON's exclusive warranty is that the products are free from defects in materials and workmanship for a period of one year (or other period if specified) from date of sale by OMRON.

OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, REGARDING NON-INFRINGEMENT, MERCHANTABILITY, OR FITNESS FOR PARTICULAR PURPOSE OF THE PRODUCTS. ANY BUYER OR USER ACKNOWLEDGES THAT THE BUYER OR USER ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE. OMRON DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED.

LIMITATIONS OF LIABILITY

OMRON SHALL NOT BE RESPONSIBLE FOR SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED ON CONTRACT, WARRANTY, NEGLIGENCE, OR STRICT LIABILITY.

In no event shall the responsibility of OMRON for any act exceed the individual price of the product on which liability is asserted.

IN NO EVENT SHALL OMRON BE RESPONSIBLE FOR WARRANTY, REPAIR, OR OTHER CLAIMS REGARDING THE PRODUCTS UNLESS OMRON'S ANALYSIS CONFIRMS THAT THE PRODUCTS WERE PROPERLY HANDLED, STORED, INSTALLED, AND MAINTAINED AND NOT SUBJECT TO CONTAMINATION, ABUSE, MISUSE, OR INAPPROPRIATE MODIFICATION OR REPAIR.

Application Considerations

SUITABILITY FOR USE

OMRON shall not be responsible for conformity with any standards, codes, or regulations that apply to the combination of products in the customer's application or use of the products.

At the customer's request, OMRON will provide applicable third party certification documents identifying ratings and limitations of use that apply to the products. This information by itself is not sufficient for a complete determination of the suitability of the products in combination with the end product, machine, system, or other application or use.

The following are some examples of applications for which particular attention must be given. This is not intended to be an exhaustive list of all possible uses of the products, nor is it intended to imply that the uses listed may be suitable for the products:

- · Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this catalog.
- Nuclear energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
- · Systems, machines, and equipment that could present a risk to life or property.

Please know and observe all prohibitions of use applicable to the products.

NEVER USE THE PRODUCTS FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCTS ARE PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

PROGRAMMABLE PRODUCTS

OMRON shall not be responsible for the user's programming of a programmable product, or any consequence thereof.

Disclaimers

CHANGE IN SPECIFICATIONS

Product specifications and accessories may be changed at any time based on improvements and other reasons.

It is our practice to change model numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the products may be changed without any notice. When in doubt, special model numbers may be assigned to fix or establish key specifications for your application on your request. Please consult with your OMRON representative at any time to confirm actual specifications of purchased products.

DIMENSIONS AND WEIGHTS

Dimensions and weights are nominal and are not to be used for manufacturing purposes, even when tolerances are shown.

PERFORMANCE DATA

Performance data given in this catalog is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of OMRON's test conditions, and the users must correlate it to actual application requirements. Actual performance is subject to the OMRON Warranty and Limitations of Liability.

ERRORS AND OMISSIONS

The information in this document has been carefully checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical, or proofreading errors, or omissions.

2011.9

OMRON Corporation Industrial Automation Company

In the interest of product improvement, specifications are subject to change without notice.

http://www.ia.omron.com/



Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию.

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России, а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научноисследовательскими институтами России.

С нами вы становитесь еще успешнее!

Наши контакты:

Телефон: +7 812 627 14 35

Электронная почта: sales@st-electron.ru

Адрес: 198099, Санкт-Петербург, Промышленная ул, дом № 19, литера Н, помещение 100-Н Офис 331