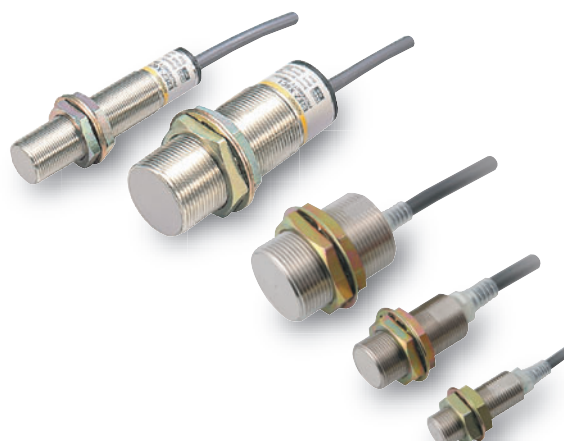



Chip-immune Inductive Proximity Sensor


- Correct operation even with aluminum or iron chips sticking to the Sensor.
Only the sensing object is detected.
- Pre-wired Smartclick Connector Models also available.




 Be sure to read *Safety Precautions* on page 7.

Ordering Information


Sensors [Refer to *Dimensions* on page 8.]
Pre-wired Models

| Appearance | Sensing distance | Output configuration | Model | | |
|---|------------------|----------------------|------------------|----------------|----------------|
| | | | Operation mode | | |
| | | | NO | NC | |
|  | M12 | 2 mm | DC 2-Wire Models | E2EZ-X2D1-N 2M | E2EZ-X2D2-N 2M |
| | M18 | 4 mm | DC 3-wire, NPN | E2EZ-X4C1 2M | — |
| | | | DC 2-wire | E2EZ-X4D1-N 2M | E2EZ-X4D2-N 2M |
| | | | AC 2-wire | E2EZ-X4Y1 2M | — |
| | M30 | 8 mm | DC 3-wire, NPN | E2EZ-X8C1 2M | — |
| | | | DC 2-wire | E2EZ-X8D1-N 2M | E2EZ-X8D2-N 2M |
| | | | AC 2-wire | E2EZ-X8Y1 2M | |

Pre-wired Smartclick Connector Models (M12)

| Appearance | Sensing distance | Output configuration | Model | | |
|---|------------------|----------------------|------------------------------------|----------------------|---|
| | | | Operation mode | | |
| | | | NO | NC | |
|  | M12 | 2 mm | DC 2-wire, (3)-(4) pin arrangement | E2EZ-X2D1-M1TJ 0.3M | — |
| | | | DC 2-wire, (1)-(4) pin arrangement | E2EZ-X2D1-M1TGJ 0.3M | — |
| | M18 | 4 mm | DC 2-wire, (3)-(4) pin arrangement | E2EZ-X4D1-M1TJ 0.3M | — |
| | | | DC 2-wire, (1)-(4) pin arrangement | E2EZ-X4D1-M1TGJ 0.3M | — |
| | M30 | 8 mm | DC 2-wire, (3)-(4) pin arrangement | E2EZ-X8D1-M1TJ 0.3M | — |
| | | | DC 2-wire, (1)-(4) pin arrangement | E2EZ-X8D1-M1TGJ 0.3M | — |






Pre-wired Connector Models (M12)

| Appearance | Sensing distance | | | Output configuration | Model | |
|---|------------------|------|--|------------------------------------|---------------------|----|
| | | | | | Operation mode | |
| | | | | | NO | NC |
|  Shielded | M12 | 2 mm | | DC 2-wire, (3)-(4) pin arrangement | E2EZ-X2D1-M1J 0.3M | — |
| | | | | DC 2-wire, (1)-(4) pin arrangement | E2EZ-X2D1-M1GJ 0.3M | — |
| | M18 | 4 mm | | DC 2-wire, (3)-(4) pin arrangement | E2EZ-X4D1-M1J 0.3M | — |
| | | | | DC 2-wire, (1)-(4) pin arrangement | E2EZ-X4D1-M1GJ 0.3M | — |
| | M30 | 8 mm | | DC 2-wire, (3)-(4) pin arrangement | E2EZ-X8D1-M1J 0.3M | — |
| | | | | DC 2-wire, (1)-(4) pin arrangement | E2EZ-X8D1-M1GJ 0.3M | — |

Accessories (Order Separately)

Sensor I/O Connectors (M12)

(Models for Pre-wired Connectors: A Connector is not provided with the Sensor. Be sure to order a Connector separately.) [Refer to Dimensions on XS2, XS5.]

| Appearance | Cable length | Sensor I/O Connector model number | Applicable Proximity Sensor model number |
|---|--------------|-----------------------------------|--|
|  Straight | 2 m | XS2F-D421-DD0 | E2EZ-X□D1-M1J |
| | 5 m | XS2F-D421-GD0 | |
|  L-shape | 2 m | XS2F-D422-DD0 | |
| | 5 m | XS2F-D422-GD0 | |
|  Straight | 2 m | XS2F-D421-DA0-A | E2EZ-X□D1-M1GJ |
| | 5 m | XS2F-D421-GA0-A | |
|  L-shape | 2 m | XS2F-D422-DA0-A | |
| | 5 m | XS2F-D422-GA0-A | |
|  Smartclick Connector Straight | 2 m | XS5F-D421-D80-A | E2EZ-X□D1-M1TJ E2EZ-X□D1-M1TGJ |
| | 5 m | XS5F-D421-G80-A | |

Mounting Brackets

Protective Covers

Sputter Protective Covers

Refer to Y92□ for details.

Ratings and Specifications

| Model | | E2EZ-X2D□-N E2EZ-X2D□-M1J E2EZ-X2D□-M1GJ | E2EZ-X4D□-N E2EZ-X4D□-M1J E2EZ-X4D□-M1GJ | E2EZ-X8D□-N E2EZ-X8D□-M1J E2EZ-X8D□-M1GJ | E2EZ-X4C1 E2EZ-X4Y1 | E2EZ-X8C1 E2EZ-X8Y1 |
|--|------------------|--|---|---|--|----------------------------------|
| Item | | | | | | |
| Sensing distance | | 2 mm ±10% | 4 mm ±10% | 8 mm ±10% | 4 mm ±10% | 8 mm ±10% |
| Set distance *1 | | 0 to 1.6 mm | 0 to 3.2 mm | 0 to 6.4 mm | 0 to 3.2 mm | 0 to 6.4 mm |
| Differential travel | | 20% max. of sensing distance | | | | |
| Detectable object | | Ferrous metal (The sensing distance decreases with non-ferrous metal. Refer to <i>Engineering Data</i> on page 4.) | | | | |
| Standard sensing object | | Iron, 12 × 12 × 1 mm | Iron, 30 × 30 × 1 mm | Iron, 54 × 54 × 1 mm | Iron, 30 × 30 × 1 mm | Iron, 54 × 54 × 1 mm |
| Response frequency *2 | | 200 Hz | 100 Hz | 30 Hz | C Models: 12 Hz Y Models: 5 Hz | C Models: 8 Hz Y Models: 5 Hz |
| Power supply voltage (operating voltage range) | | 12 to 24 VDC (10 to 30 VDC), ripple (p-p): 10% max. | | | C Models: 12 to 24 VDC (10 to 30 VDC), ripple (p-p): 10% max. Y Models: 100 to 220 VAC (90 to 250 VAC), 50/60 Hz | |
| Current consumption | | --- | | | C Models: 15 mA max. | |
| Leakage current | | 0.8 mA max. | | | Y Models: 2 mA max. at 100 VAC, 3 mA max. at 200 VAC | |
| Control output | Load current | 3 to 100 mA max. | | | C Models: NPN open-collector output 100 mA max. at 12 VDC (30 VDC max.) 200 mA max. at 24 VDC (30 VDC max.) Y Models: 10 to 200 mA | |
| | Residual voltage | 3 V max. (Load current: 100 mA, Cable length: 2 m) | | | C Models: 2 V max. (Load current: 200 mA, Cable length: 2 m) Y Models: Refer to residual voltage characteristic data Refer to page 4. | |
| Indicators | | D1 Models: Operation indicator (red), Setting indicator (green) D2 Models: Operation indicator (red) | | | C Models: Detection indicator (red) Y Models: Operation indicator (red) | |
| Operation mode (with sensing object approaching) | | D1 Models: NO D2 Models: NC For details, refer to the <i>Timing chart</i> on page 5. | | | NO For details, refer to the <i>Timing chart</i> on page 6. | |
| Protection circuits | | Load short-circuit protection, Surge suppressor | | | C Models: Load short-circuit protection, Reverse polarity protection, Surge suppressor Y Models: Surge suppressor | |
| Ambient temperature range | | Operating/Storage: 0 to 50°C (with no icing or condensation) | | | | |
| Ambient humidity range | | Operating/Storage: 35% to 95% (with no condensation) | | | | |
| Temperature influence | | ±20% max. of sensing distance at 23°C in the temperature range of 0 to 50°C | | | | |
| Voltage influence | | ±2.5% max. of sensing distance at rated voltage in the rated voltage ±10% range | | | | |
| Insulation resistance | | 50 MΩ min. (at 500 VDC) between current-carrying parts and case | | | | |
| Dielectric strength | | 1,000 VAC, 50/60 Hz for 1 minute between current-carrying parts and case | | | C Models: 1,000 VAC, 50/60 Hz for 1 min between current-carrying parts and case Y Models: 2,000 VAC, 50/60 Hz for 1 min between current-carrying parts and case | |
| Vibration resistance | | Destruction: 10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions | | | | |
| Shock resistance | | Destruction: 1,000 m/s ² 10 times each in X, Y, and Z directions | | | | |
| Degree of protection | | IEC 60529 IP67, in-house standards: oil-resistant | | | | |
| Connection method | | Pre-wired Models (Standard cable length: 2 m) and Pre-wired Connector Models | | | | |
| Weight (packed state) | | E2EZ-X2D□-N: Approx. 70 g E2EZ-X2D□-M1J: Approx. 40 g E2EZ-X2D□-M1GJ: Approx. 40 g | E2EZ-X4D□-N: Approx. 160 g E2EZ-X4D□-M1J: Approx. 90 g E2EZ-X4D□-M1GJ: Approx. 90 g | E2EZ-X8D□-N: Approx. 220 g E2EZ-X8D□-M1J: Approx. 160 g E2EZ-X8D□-M1GJ: Approx. 160 g | Approx. 170 g | Approx. 270 g |
| Materials | Case | Nickel-plated brass | | | | |
| | Sensing surface | PBT | | | Heat-resistant ABS | |
| | Clamping nuts | Zinc-plated iron | | | | |
| | Toothed washer | Zinc-plated iron | | | | |
| Accessories | | Instruction manual | | | | |

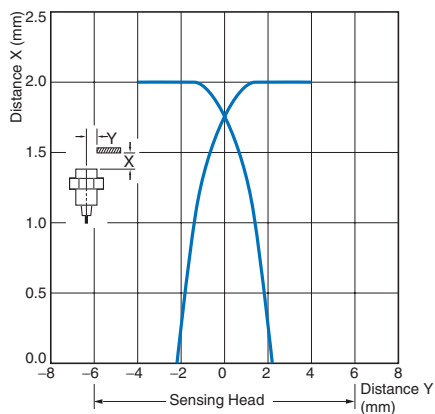
*1. Use the Sensor within the range in which the green indicator is ON.

*2. The response frequency is an average value. Measurement conditions are as follows: standard sensing object, a distance of twice the standard sensing object, and a set distance of half the sensing distance.

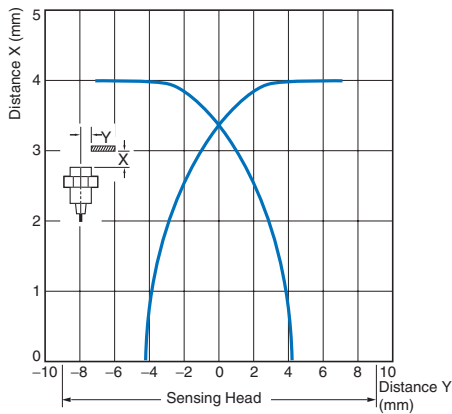
Engineering Data (Typical)

Sensing Area

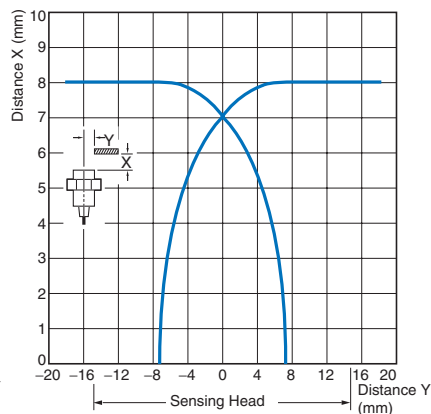
E2EZ-X2



E2EZ-X4

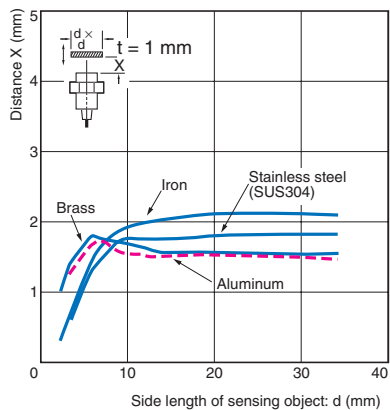


E2EZ-X8

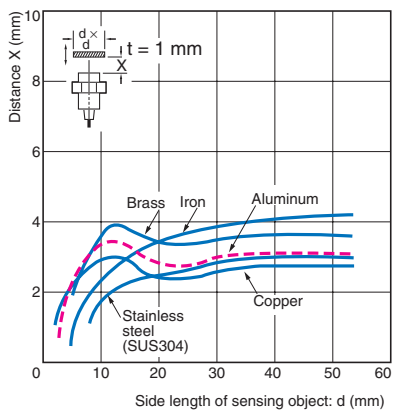


Influence of Sensing Object Size and Material

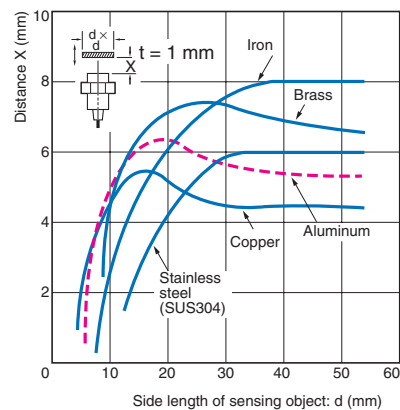
E2EZ-X2



E2EZ-X4

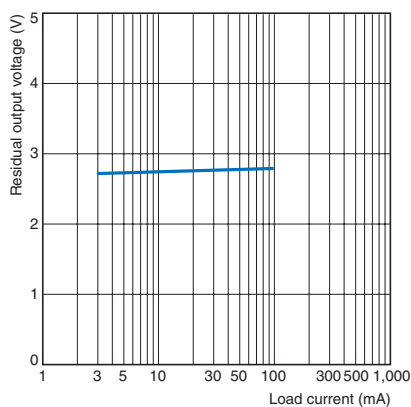


E2EZ-X8

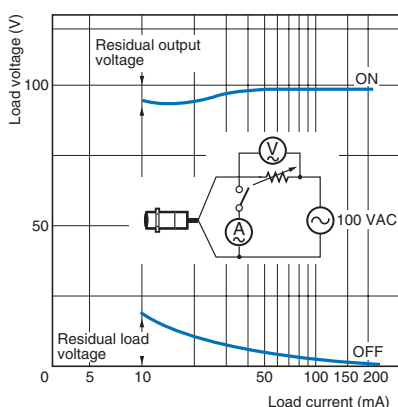


Residual Output Voltage

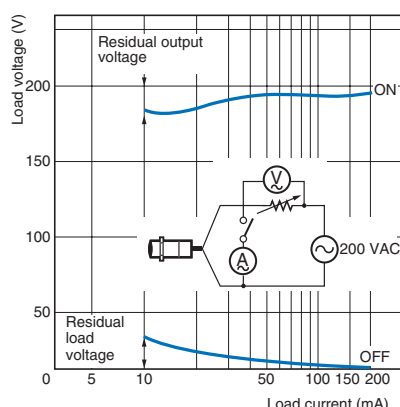
E2EZ-X□D□-N



E2EZ-X4Y1/-X8Y1 at 100 VAC

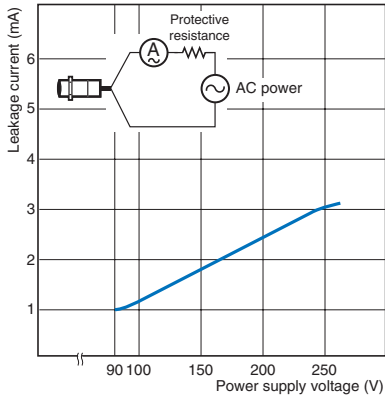


E2EZ-X4Y1/-X8Y1 at 200 VAC

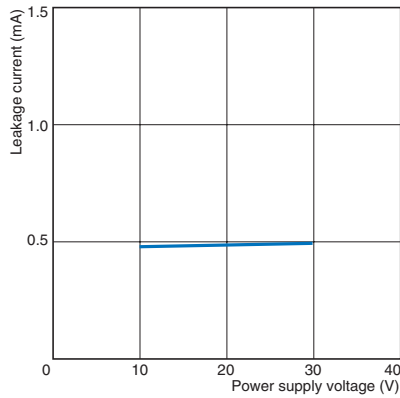


Leakage Current

E2EZ-X4Y1/-X8Y1



E2EZ-X□D□-N



I/O Circuit Diagrams

DC 2-Wire Models

| Operation mode | Model | Timing chart | Output circuit |
|----------------|---|--------------|--|
| NO | E2EZ-X2D1-N E2EZ-X4D1-N E2EZ-X8D1-N | | <p>Note: The load can be connected to either the +V or 0 V side.</p> |
| | E2EZ-X2D1-M1J E2EZ-X2D1-M1GJ E2EZ-X4D1-M1J E2EZ-X4D1-M1GJ E2EZ-X8D1-M1J E2EZ-X8D1-M1GJ | | <p>Note: The load can be connected to either the +V or 0 V side.</p> <p>Note: Pins 1 and 2 are not used.</p> <p>Note: Pins 2 and 3 are not used.</p> |
| NC | E2EZ-X2D2-N E2EZ-X4D2-N E2EZ-X8D2-N | | <p>Note: The load can be connected to either the +V or 0 V side.</p> |

DC 3-wire Models

| Operation mode | Model | Timing chart | Output circuit |
|----------------|------------------------|--------------|----------------|
| NO | E2EZ-X4C1 E2EZ-X8C1 | | |

AC 2-Wire Models

| Operation mode | Model | Timing chart | Output circuit |
|----------------|------------------------|--------------|----------------|
| NO | E2EZ-X4Y1 E2EZ-X8Y1 | | |

Connections for Sensor I/O Connectors

| Proximity Sensor | | Sensor I/O Connectors | | Connections |
|--|----------------|-----------------------|--|-------------|
| Model | Operation mode | Model | Model | |
| DC 2-Wire Models (IEC pin wiring) | NO | E2EZ-X□D1-M1GJ | XS2F-D42□-□A0-A 1: Straight 2: L-shape D: 2-m cable G: 5-m cable | |
| DC 2-Wire Models (previous pin wiring) | | E2EZ-X□D1-M1J | XS2F-D42□-□D0 1: Straight 2: L-shape D: 2-m cable G: 5-m cable | |
| DC 2-Wire Models (IEC pin wiring) | | E2EZ-X□D1-M1TGJ | XS5F-D421-□80-A D: 2-m cable G: 5-m cable | |
| DC 2-Wire Models (previous pin wiring) | | E2EZ-X□D1-M1TJ | | |

Refer to the *Sensor I/O Connector Group Catalog* (Cat. No. X073) for details.

Safety Precautions

Refer to *Warranty and Limitations of Liability*.

⚠ WARNING

This product is not designed or rated for ensuring safety of persons either directly or indirectly. Do not use it for such purposes.



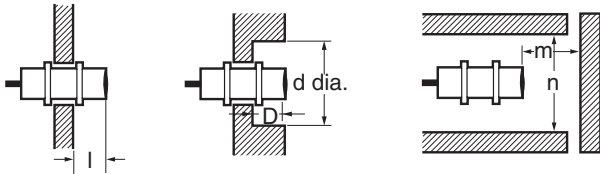
Precautions for Correct Use

Do not use this product under ambient conditions that exceed the ratings.

● Design

Influence of Surrounding Metal

When mounting the Sensor within a metal panel, ensure that the clearances given in the following table are maintained. Failure to maintain these distances may cause deterioration in the performance of the Sensor.



Influence of Surrounding Metal (Unit: mm)

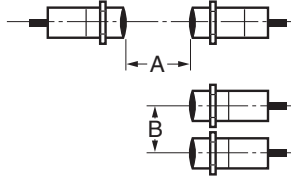
| Model | Item Embedded material | l | d | D | m | n |
|----------|------------------------|----|----|----|----|----|
| E2EZ-X2□ | Iron | 0 | 12 | 0 | 8 | 18 |
| | Aluminum | 2 | 25 | 2 | | 36 |
| E2EZ-X4□ | Iron | 0 | 18 | 0 | 16 | 27 |
| | Aluminum | 5 | 40 | 5 | | 54 |
| E2EZ-X8□ | Iron | 0 | 30 | 0 | 32 | 45 |
| | Aluminum | 10 | 70 | 10 | | 90 |

Mutual Interference

When installing Sensors face-to-face or side-by-side, ensure that the minimum distances given in the following table are maintained.

Mutual Interference (Unit: mm)

| Model | Item | A | B |
|----------|------|----|-----|
| E2EZ-X2□ | | 30 | 20 |
| E2EZ-X4□ | | 40 | 50 |
| E2EZ-X8□ | | 60 | 100 |



Aluminum and Iron Cuttings

Normally aluminum or iron cuttings will not be detected even if they adhere to or accumulate on the sensing surface.

Detection signals may be output for the following:

If this occurs, remove the cuttings from the sensing surface.

1. Relationship between the Size of the Cutting (d) and the Size of the Sensing Surface (D)

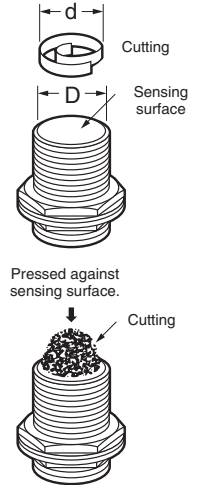
Cuttings of the size $d \geq \frac{2}{3}D$ on the sensing surface *

Cuttings of the size d* (Unit: mm)

| Model | Size | D |
|----------|------|-----|
| E2EZ-X2□ | | 10* |
| E2EZ-X4□ | | 16 |
| E2EZ-X8□ | | 28 |

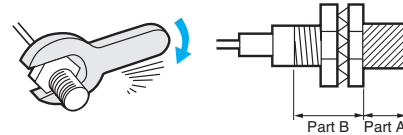
* E2EZ-X2□: $d \geq \frac{1}{3}D$ on the sensing surface.

2. Cuttings Pressed against the Sensing Surface



● Mounting

Do not tighten the nut with excessive force. A washer must be used with the nut.



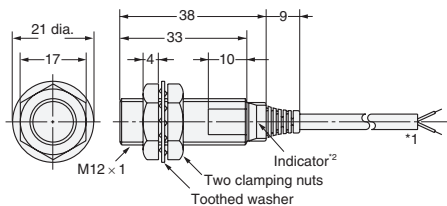
Note: 1. The allowable tightening strength depends on the distance from the edge of the head, as shown in the following table. (A is the distance from the edge of the head. B includes the nut on the head side. If the edge of the nut is in part A, the tightening torque for part A applies instead.)
2. The following torque assume washers are being used.

| Model | Tightening Torque | |
|-------------|-------------------|--------|
| | Part A | Part B |
| E2EZ-X2D□-□ | Dimension (mm) | Torque |
| E2EZ-X4D□-□ | 20 | 15 N·m |
| E2EZ-X8D□-□ | 22 | 29 N·m |
| E2EZ-X4C1 | | 29 N·m |
| E2EZ-X4Y1 | | 29 N·m |
| E2EZ-X8C1 | | 39 N·m |
| E2EZ-X8Y1 | | 39 N·m |

Dimensions

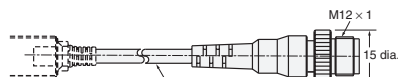
Tolerance class IT16 applies to dimensions in this data sheet unless otherwise specified.

E2EZ-X2D□-N



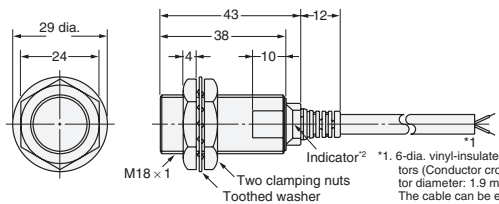
- *1. 4-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.3 mm), Standard length: 2 m
- *2. D1 Models: Operation indicator (red), Setting indicator (green), D2 Models: Operation indicator (red)

Pre-wired Connector Models (-M1J/M1GJ)



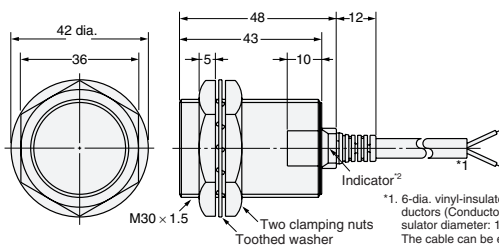
4-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.3 mm), Standard length: 300 mm

E2EZ-X4D□-N



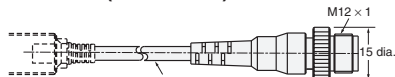
- *1. 6-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 2 m. The cable can be extended up to 200 m (separate metal conduit).
- *2. D1 Models: Operation indicator (red), Setting indicator (green), D2 Models: Operation indicator (red)

E2EZ-X8D□-N



- *1. 6-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 2 m. The cable can be extended up to 200 m (separate metal conduit).
- *2. D1 Models: Operation indicator (red), Setting indicator (green), D2 Models: Operation indicator (red)

Pre-wired Connector Models (-M1J/M1GJ)



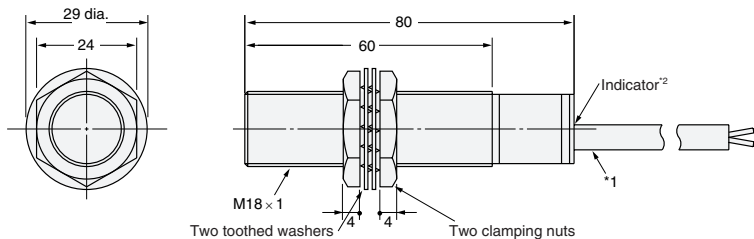
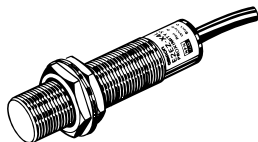
6-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 300 mm

Pre-wired Connector Models (-M1J/M1GJ)



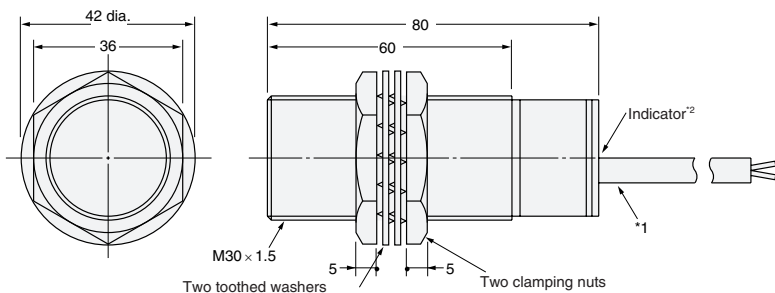
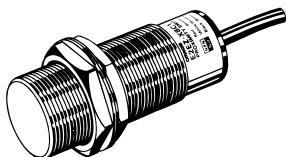
6-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 300 mm

E2EZ-X4C1 E2EZ-X4Y1



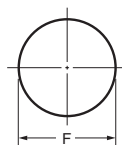
- *1. C Models: 6-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 2 m
Y Models: 6-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 2 m
- *2. C Models: Detection indicator (red), Y Models: Operation indicator (red)

E2EZ-X8C1 E2EZ-X8Y1



- *1. C Models: 6-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 2 m
Y Models: 6-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 2 m
- *2. C Models: Detection indicator (red), Y Models: Operation indicator (red)

Mounting Hole Dimensions



| Model | F (mm) |
|----------|---|
| E2EZ-X2□ | 12.5 dia. ^{+0.5} / ₋₀ |
| E2EZ-X4□ | 18.5 dia. ^{+0.5} / ₋₀ |
| E2EZ-X8□ | 30.5 dia. ^{+0.5} / ₋₀ |

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

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Application Considerations

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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.

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PROGRAMMABLE PRODUCTS

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Disclaimers

CHANGE IN SPECIFICATIONS

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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.

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OMRON Corporation
Industrial Automation Company

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- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
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JONHON

«JONHON» (основан в 1970 г.)

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«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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