



Spatter-resistant Fluororesin-coated Proximity Sensor

- Superior spatter resistance.
- Long Sensing-distance Models added for sensing distances up to 15 mm.
- Pre-wired Smartclick Connector Models are also available.



Be sure to read *Safety Precautions* on page 6.

For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Ordering Information

Sensors [Refer to *Dimensions* on page 7.]

Pre-wired Models

Long Sensing-distance Models

| Appearance | Sensing distance | Output configuration | Operation mode | Model |
|--------------|------------------|-------------------------|----------------|---------------|
| Shielded | M12 4 mm | DC 2-wire (no polarity) | NO | E2EQ-X4X1 2M |
| | M18 8 mm | | | E2EQ-X8X1 2M |
| | M30 15 mm | | | E2EQ-X15X1 2M |

Standard Models

| Appearance | Sensing distance | Output configuration | Operation mode | Model |
|--------------|------------------|----------------------|----------------|---------------|
| Shielded | M12 3 mm | DC 2-wire | NO | E2EQ-X3D1 2M |
| | M18 7 mm | | | E2EQ-X7D1 2M |
| | M30 10 mm | | | E2EQ-X10D1 2M |

Pre-wired Smartclick Connector Models (M12)

Long Sensing-distance Models





| Appearance | Sensing distance | Output configuration | Operation mode | Model |
|--------------|------------------|---|----------------|----------------------|
| Shielded | M12 4 mm | DC 2-wire (no polarity) (3)-(4) pin arrangement | NO | E2EQ-X4X1-M1TJ 0.3M |
| | M18 8 mm | | | E2EQ-X8X1-M1TJ 0.3M |
| | M30 15 mm | | | E2EQ-X15X1-M1TJ 0.3M |

Standard Models


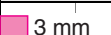


| Standard Models | Sensing distance | Output configuration | Operation mode | Model |
|-----------------|------------------|-----------------------------------|----------------|-----------------------|
| Shielded | M12 3 mm | DC 2-wire (1)-(4) pin arrangement | NO | E2EQ-X3D1-M1TGJ 0.3M |
| | M18 7 mm | | | E2EQ-X7D1-M1TGJ 0.3M |
| | M30 10 mm | | | E2EQ-X10D1-M1TGJ 0.3M |

Pre-wired Connector Models (M12)

Long Sensing-distance Models

| Appearance | | Sensing distance | Output configuration | Operation mode | Model |
|---|-----|---|---|----------------|---------------------|
| Shielded  | M12 |  4 mm | DC 2-wire (without polarity) (3)-(4) pin arrangement | NO | E2EQ-X4X1-M1J 0.3M |
| | M18 |  8 mm | | | E2EQ-X8X1-M1J 0.3M |
| | M30 |  15 mm | | | E2EQ-X15X1-M1J 0.3M |


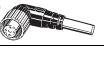

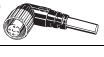

Standard Models

| Standard Models | | Sensing distance | Output configuration | Operation mode | Model |
|---|-----|---|---|----------------|----------------------|
| Shielded  | M12 |  3 mm | DC 2-wire (1)-(4) pin arrangement | NO | E2EQ-X3D1-M1GJ 0.3M |
| | M18 |  7 mm | | | E2EQ-X7D1-M1GJ 0.3M |
| | M30 |  10 mm | | | E2EQ-X10D1-M1GJ 0.3M |

Accessories (Order Separately)

Sensor I/O Connectors (M12, Sockets on One Cable End)

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

| Appearance | Cable length | Sensor I/O Connector model number | Applicable Proximity Sensor model number |
|---|--------------|-----------------------------------|--|
| Straight  | 2 m | XS2F-D421-DC0-F | E2EQ-X□X1-M1J |
| | 5 m | XS2F-D421-GC0-F | |
| L-shape  | 2 m | XS2F-D422-DC0-F | |
| | 5 m | XS2F-D422-GC0-F | |
| Straight  | 2 m | XS2F-D421-DA0-F | E2EQ-X□D1-M1GJ |
| | 5 m | XS2F-D421-GA0-F | |
| L-shape  | 2 m | XS2F-D422-DA0-F | |
| | 5 m | XS2F-D422-GA0-F | |
| Smartclick Connector Straight  | 2 m | XS5F-D421-D80-F | E2EQ-X□X1-M1TJ E2EQ-X□D1-M1TGJ |
| | 5 m | XS5F-D421-G80-F | |

Note: Refer to *Introduction to Sensor I/O Connectors* for details.

Ratings and Specifications

Long Sensing-distance Models

| Item | Model | E2EQ-X4X1 E2EQ-X4X1-M1(T)J | E2EQ-X8X1 E2EQ-X8X1-M1(T)J | E2EQ-X15X1 E2EQ-X15X1-M1(T)J |
|--|----------------------------|--|-------------------------------|---|
| Sensing distance | | 4 mm ±10% | 8 mm ±10% | 15 mm ±10% |
| Set distance *1 | | 0 to 3.2 mm | 0 to 6.4 mm | 0 to 12 mm |
| Differential travel | | 15% max. of sensing distance | | |
| Standard sensing object | | Iron, 12 × 12 × 1 mm | Iron, 18 × 18 × 1 mm | Iron, 30 × 30 × 1 mm |
| Response frequency *2 | | 1 kHz | 0.5 kHz | 0.25 kHz |
| Control output | Load current | 3 to 100 mA | | |
| | Residual voltage *3 | 5 V max. (Load current: 100 mA, Cable length: 2 m) | | |
| Operation mode (with sensing object approaching) | | Load ON: NO; For details, refer to the timing charts on page 5. | | |
| Protection circuits | | Load short-circuit protection, Surge suppressor | | |
| Ambient temperature range | | Operating: -25 to 70°C, Storage: -40 to 85°C, (with no icing or condensation) | | |
| Temperature influence | | ±15% max. of sensing distance at 23°C in the temperature range of -40 to 85°C ±10% max. of sensing distance at 23°C in the temperature range of -25 to 70°C | | ±15% max. of sensing distance at 23°C in the temperature range of -25 to 70°C |
| Voltage influence | | ±1% max. of sensing distance at rated voltage in the rated voltage ±15% range | | |
| Shock resistance | | Destruction: 1,000m/s ² 10 times each in X, Y, and Z directions | | |
| Connection method | | Pre-wired Models (Standard cable length: 2 m), Pre-wired Connector Models | | |
| Weight (packed state) | Pre-wired Models | Approx. 65 g | Approx. 140 g | Approx. 190 g |
| | Pre-wired Connector Models | Approx. 20 g | Approx. 40 g | Approx. 90 g |

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

*2. The response frequency is an average value.

*3. The residual voltage is 5 V. Make sure that the device connected to the Sensor can withstand the residual voltage.

Standard Models

| Item | | Model | E2EQ-X3D1 E2EQ-X3D1-M1(T)GJ | E2EQ-X7D1 E2EQ-X7D1-M1(T)GJ | E2EQ-X10D1 E2EQ-X10D1-M1(T)GJ |
|--|----------------------------|-------|---|------------------------------------|------------------------------------|
| Sensing distance | | | 3 mm \pm 10% | 7 mm \pm 10% | 10 mm \pm 10% |
| Set distance | | | 0 to 2.4 mm | 0 to 5.6 mm | 0 to 8 mm |
| Differential travel | | | 10% max. of sensing distance | | |
| Standard sensing object | | | Iron, 12 \times 12 \times 1 mm | Iron, 18 \times 18 \times 1 mm | Iron, 30 \times 30 \times 1 mm |
| Response frequency * | | | 1 kHz | 500 Hz | 400 Hz |
| Control output | Load current | | 3 to 100 mA | | |
| | Residual voltage | | 3 V max. (Load current: 100 mA, Cable length: 2 m) | | |
| Operation mode (with sensing object approaching) | | | Load ON: NO; For details, refer to the timing charts on page 5. | | |
| Protection circuits | | | Load short-circuit protection, Surge suppressor | | |
| Ambient temperature range | | | Operating/Storage: -25 to 70°C (with no icing or condensation) | | |
| Temperature influence | | | \pm 10% max. of sensing distance at 23°C in the temperature range of -25 to 70°C | | |
| Voltage influence | | | \pm 2.5% max. of sensing distance at rated voltage in the rated voltage \pm 15% range | | |
| Shock resistance | | | Destruction: 1,000 m/s ² 10 times each in X, Y, and Z directions | | |
| Connection method | | | E2EQ-X□D1: Pre-wired Models (Standard cable length: 2 m) E2EQ-X□D1-M1GJ: Pre-wired Connector Models (Standard cable length: 300mm) | | |
| Weight (packed state) | Pre-wired Models | | Approx. 120 g | Approx. 160 g | Approx. 220 g |
| | Pre-wired Connector Models | | Approx. 80 g | Approx. 110 g | Approx. 190 g |

* 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.

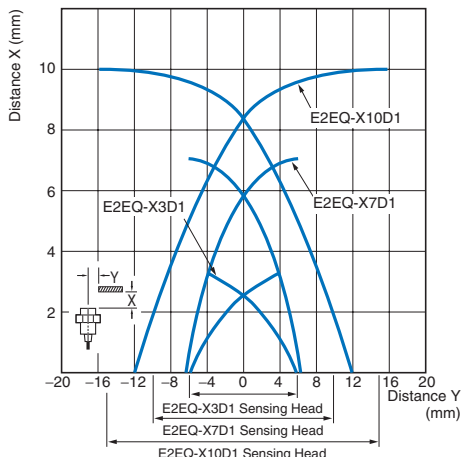
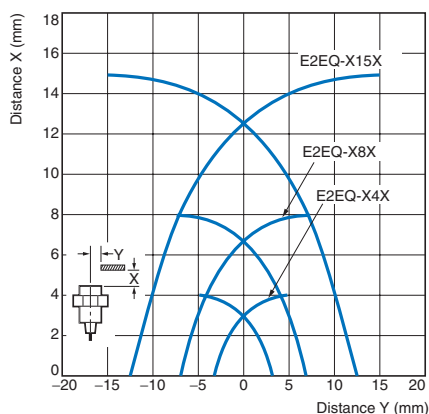
Common Ratings and Performance

| Item | | Model | E2EQ-X4X1 E2EQ-X4X1-M1(T)J E2EQ-X3D1 E2EQ-X3D1-M1(T)GJ | E2EQ-X8X1 E2EQ-X8X1-M1(T)J E2EQ-X7D1 E2EQ-X7D1-M1(T)GJ | E2EQ-X15X1 E2EQ-X15X1-M1(T)J E2EQ-X10D1 E2EQ-X10D1-M1(T)GJ |
|--|-----------------|-------|--|---|---|
| Detectable object | | | Ferrous metal (The sensing distance decreases with non-ferrous metal. Refer to <i>Engineering Data</i> on page 4.) | | |
| Power supply voltage (operating voltage range) | | | 12 to 24 VDC (10 to 30 VDC), ripple (p-p): 10% max. | | |
| Leakage current | | | 0.8 mA max. | | |
| Indicators | | | Operation indicator (red), Setting indicator (green) | | |
| Ambient humidity range | | | Operating/Storage: 35% to 95% (with no condensation) | | |
| Insulation resistance | | | 50 M Ω min. (at 500 VDC) between current-carrying parts and case | | |
| Dielectric strength | | | 1,000 VAC 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 | | |
| Degree of protection | | | IEC 60529 IP67, in-house standards: oil-resistant | | |
| Materials | Case | | Fluororesin coating (Base material: brass) | | |
| | Sensing surface | | Fluororesin | | |
| | Clamping nuts | | Fluororesin coating (Base material: brass) | | |
| | Toothed washer | | Zinc-plated iron | | |
| Accessories | | | Instruction manual | | |

Engineering Data (Reference Value)

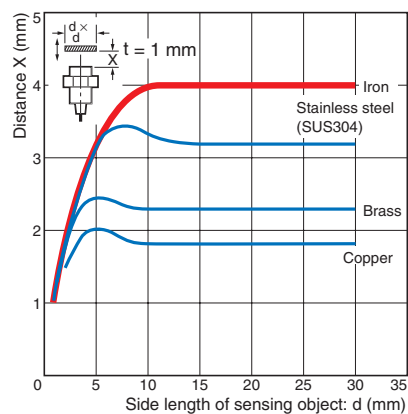
Sensing Area

E2EQ-X□X□(-M1(T)J) Shielded Models E2EQ-X□D□(-M1(T)GJ)

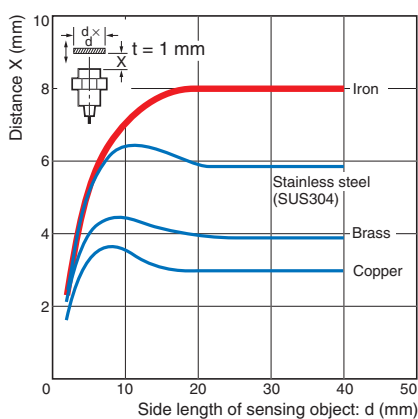


Influence of Sensing Object Size and Material

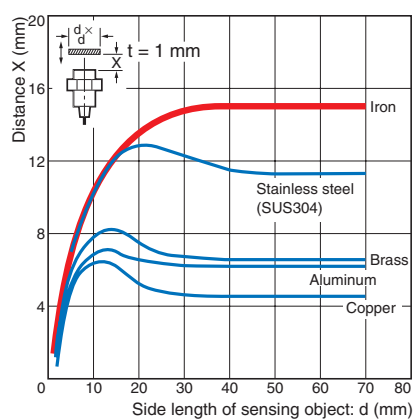
E2EQ-X4X1(-M1(T)J)



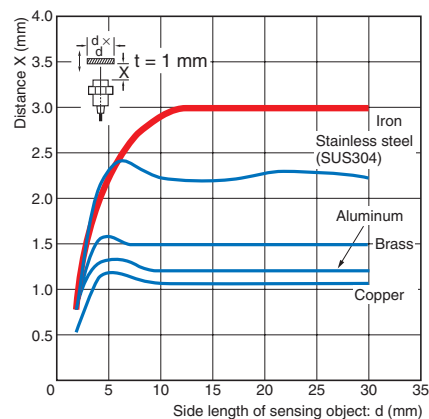
E2EQ-X8X1(-M1(T)J)



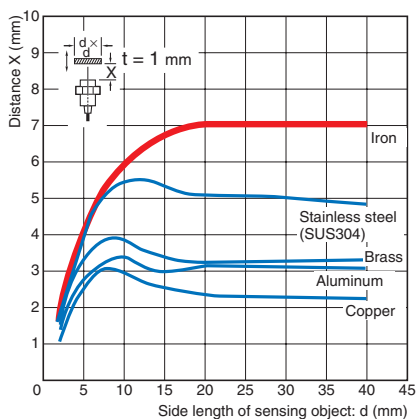
E2EQ-X15X1(-M1(T)J)



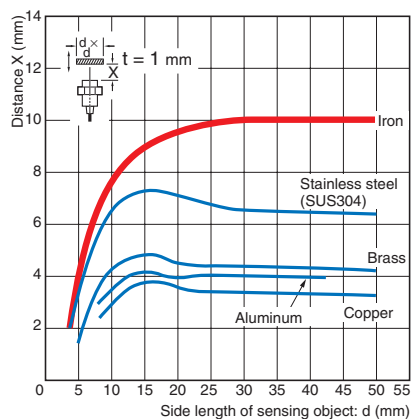
E2EQ-X3D1(-M1(T)GJ)



E2EQ-X7D1(-M1(T)GJ)

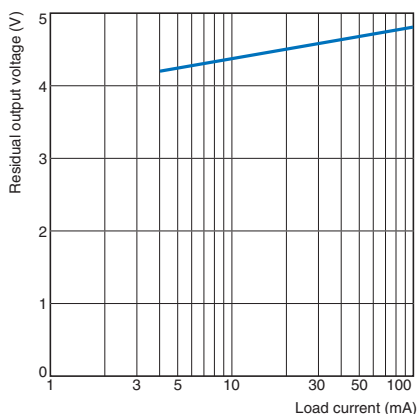


E2EQ-X10D1(-M1(T)GJ)

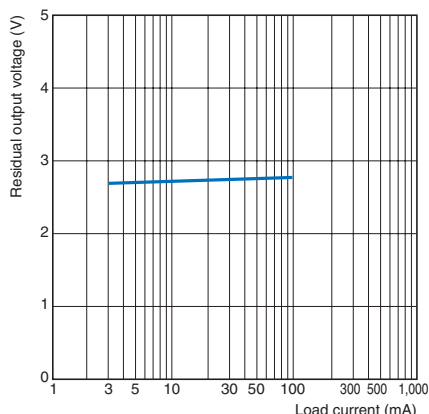


Residual Output Voltage

E2EQ-X□X□(-M1(T)J)

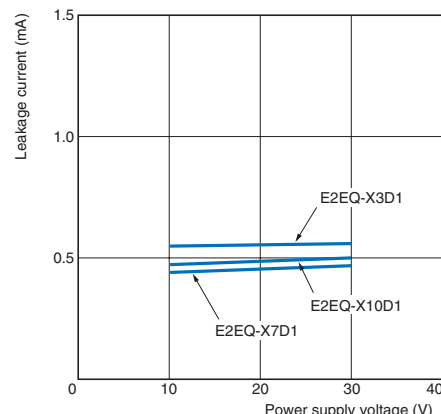


E2EQ-X□D□(-M1(T)GJ)



Leakage Current

E2EQ-X□D



I/O Circuit Diagrams

Long Sensing-distance Models

| Model | Operation mode | Timing Chart | Output circuit |
|---|----------------|---|--|
| E2EQ-X4X1 E2EQ-X8X1 E2EQ-X15X1 E2EQ-X4X1-M1(T)J E2EQ-X8X1-M1(T)J E2EQ-X15X1-M1(T)J | NO | <p>The timing chart shows a sensing object moving from a non-sensing area through an unstable sensing area to a stable sensing area. The rated sensing distance is 100% at the start and 80% (TYP) at the set position. Output states are: Setting indicator (green) ON/OFF, Operation indicator (red) ON/OFF, and Control output ON/OFF.</p> | <p>The output circuit shows a proximity sensor main circuit connected to a load between the +V (Brown) and 0V (Blue) lines. The load is connected to the +V side.</p> <p>Note 1. The load can be connected to either the +V or 0 V side. Note 2. There is no polarity. Therefore, the brown and blue lines have no polarity.</p> <p>Connector Pin Arrangement</p> <p>Note: Pins 1 and 2 are not used.</p> |

Standard Models

| Model | Operation mode | Timing Chart | Output circuit |
|--|----------------|---|--|
| E2EQ-X3D1 E2EQ-X7D1 E2EQ-X10D1 E2EQ-X3D1-M1(T)GJ E2EQ-X7D1-M1(T)GJ E2EQ-X10D1-M1(T)GJ | NO | <p>The timing chart shows a sensing object moving through sensing areas. The rated sensing distance is 100% at the start and 80% (TYP) at the set position. Output states are: Setting indicator (green) ON/OFF, Operation indicator (red) ON/OFF, and Control output ON/OFF.</p> | <p>The output circuit shows a proximity sensor main circuit connected to a load between the +V (Brown) and 0V (Blue) lines. The load is connected to the +V side.</p> <p>Note: The load can be connected to either the +V or 0 V side.</p> <p>Connector Pin Arrangement</p> <p>Note: Pins 2 and 3 are not used.</p> |

Pre-wired Connector Model Connections

| Model | E2EQ-X□X1-M1(T)J | | E2EQ-X□D1-M1(T)GJ | |
|-------------|---|---|--|---|
| Connections | Pre-wired Connector Model E2EQ-X□X1-M1J | Sensor I/O Connector XS2F-D42□-□C0-F | Pre-wired Connector Model E2EQ-X□D1-M1GJ | Sensor I/O Connector XS2F-D42□-□A0-F |
| | | ○ Brown (not used) ○ Blue (-) ○ Black (+) | | ○ Brown (+) ○ Blue (-) |
| | Pre-wired Connector Model E2EQ-X□X1-M1TJ | Sensor I/O Connector XS5F-D421-□80-F | Pre-wired Connector Model E2EQ-X□D1-M1TGJ | Sensor I/O Connector XS5F-D421-□80-F |
| | | ○ Brown (not used) ○ White (not used) ○ Blue (-) ○ Black (+) | | ○ Brown (+) ○ White (not used) ○ Blue (not used) ○ Black (-) |

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.



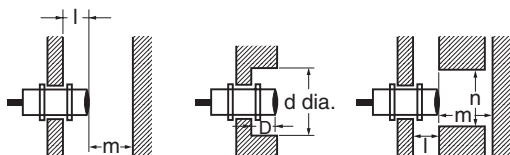
Precautions for Correct Use

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.

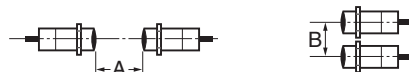


Influence of Surrounding Metal (Unit: mm)

| Model | Item | l | d | D | m | n |
|----------------------|------|-----|----|-----|----|----|
| E2EQ-X4X1(-M1(T)J) | | 2.4 | 18 | 2.4 | 12 | 18 |
| E2EQ-X8X1(-M1(T)J) | | 3.6 | 27 | 3.6 | 24 | 27 |
| E2EQ-X15X1(-M1(T)J) | | 6 | 45 | 6 | 45 | 45 |
| E2EQ-X3D1(-M1(T)GJ) | | 12 | | | 8 | 18 |
| E2EQ-X7D1(-M1(T)GJ) | 0 | 18 | 0 | | 20 | 27 |
| E2EQ-X10D1(-M1(T)GJ) | | 30 | | | 40 | 45 |

Mutual Interference

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

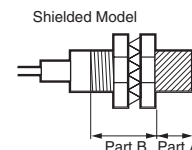


Mutual Interference (Unit: mm)

| Model | Item | A | B |
|----------------------|------|-----|----|
| E2EQ-X4X1(-M1(T)J) | | 30 | 20 |
| E2EQ-X8X1(-M1(T)J) | | 60 | 35 |
| E2EQ-X15X1(-M1(T)J) | | 110 | 90 |
| E2EQ-X3D1(-M1(T)GJ) | | 30 | 20 |
| E2EQ-X7D1(-M1(T)GJ) | | 50 | 35 |
| E2EQ-X10D1(-M1(T)GJ) | | 100 | 70 |

● 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.

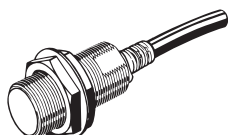
| Model | Torque | Part A | | Part B |
|----------------------|--------|----------------|---------|--------|
| | | Dimension (mm) | Torque | Torque |
| E2EQ-X4X1(-M1(T)J) | --- | | 30 N·m | |
| E2EQ-X8X1(-M1(T)J) | | | 70 N·m | |
| E2EQ-X15X1(-M1(T)J) | | | 180 N·m | |
| E2EQ-X3D1(-M1(T)GJ) | 24 | 15 N·m | --- | |
| E2EQ-X7D1(-M1(T)GJ) | 29 | | | |
| E2EQ-X10D1(-M1(T)GJ) | 26 | 39 N·m | 78 N·m | |

Dimensions

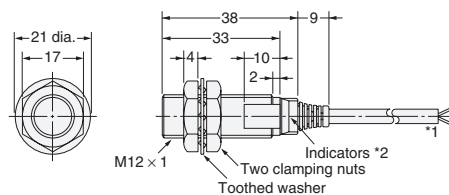
Tolerance class IT16 applies to dimensions in this data sheet unless otherwise specified.

Pre-wired Models

Long Sensing-distance Models

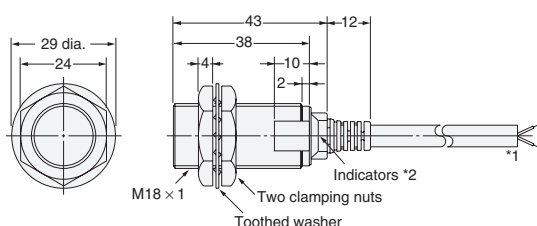


E2EQ-X4X1



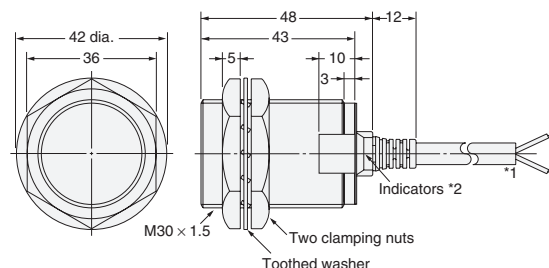
- *1. 4-dia. vinyl-insulated round cable with 2 conductors (Flame-resistant, Conductor cross section: 0.3 mm², Insulator diameter: 1.3 mm), Standard length: 2 m
The cable can be extended up to 200 m (separate metal conduit).
- *2. Operation indicator (red), Setting indicator (green)

E2EQ-X8X1



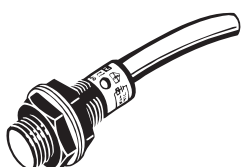
- *1. 6-dia. vinyl-insulated round cable with 2 conductors (Flame-resistant, Conductor cross section: 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 2 m
The cable can be extended up to 200 m (separate metal conduit).
- *2. Operation indicator (red), Setting indicator (green)

E2EQ-X15X1

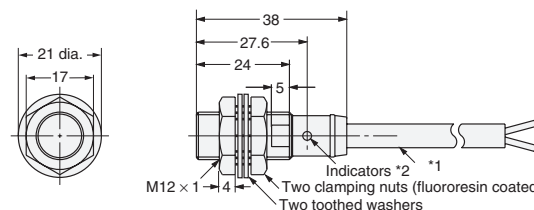


- *1. 6-dia. vinyl-insulated round cable with 2 conductors (Flame-resistant, Conductor cross section: 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 2 m
The cable can be extended up to 200 m (separate metal conduit).
- *2. Operation indicator (red), Setting indicator (green)

Standard Models

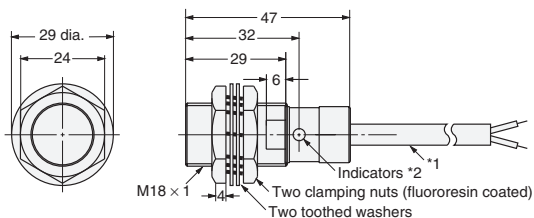


E2EQ-X3D1



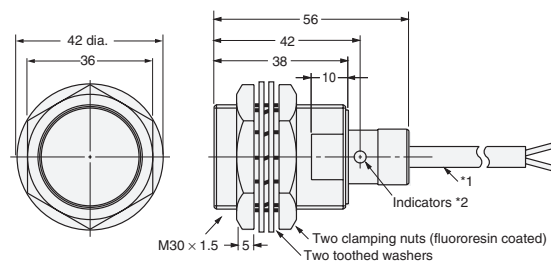
- *1. 6-dia. vinyl-insulated round cable with 2 conductors (Flame-resistant, Conductor cross section: 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 2 m
The cable can be extended up to 200 m (separate metal conduit).
- *2. Operation indicator (red), Setting indicator (green)

E2EQ-X7D1



- *1. 6-dia. vinyl-insulated round cable with 2 conductors (Flame-resistant, 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. Operation indicator (red), Setting indicator (green)

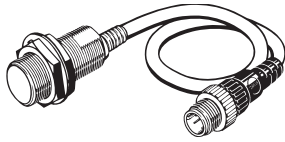
E2EQ-X10D1



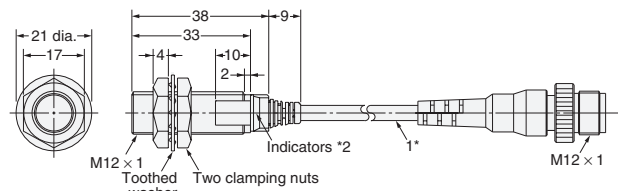
- *1. 6-dia. vinyl-insulated round cable with 2 conductors (Flame-resistant, Conductor cross section: 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 2 m
The cable can be extended up to 200 m (separate metal conduit).
- *2. Operation indicator (red), Setting indicator (green)

Pre-wired Connector Models

Long Sensing-distance Models

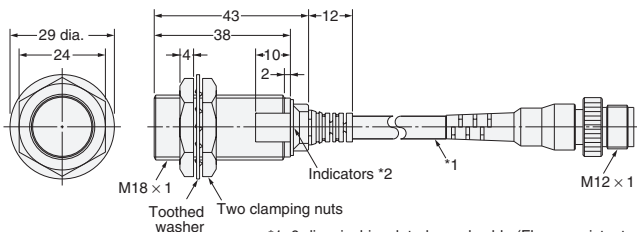


E2EQ-X4X1-M1(T)J



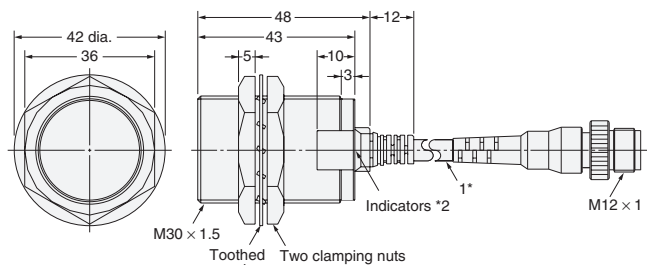
*1. 4-dia. vinyl-insulated round cable (Flame-resistant, Conductor cross section: 0.3 mm², Insulator diameter: 1.3 mm), Standard length: 300 mm
 *2. Operation indicator (red), Setting indicator (green)

E2EQ-X8X1-M1(T)J



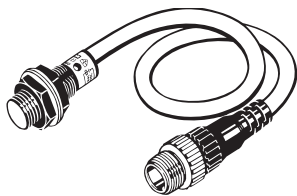
*1. 6-dia. vinyl-insulated round cable (Flame-resistant, Conductor cross section: 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 300 mm
 *2. Operation indicator (red), Setting indicator (green)

E2EQ-X15X1-M1(T)J

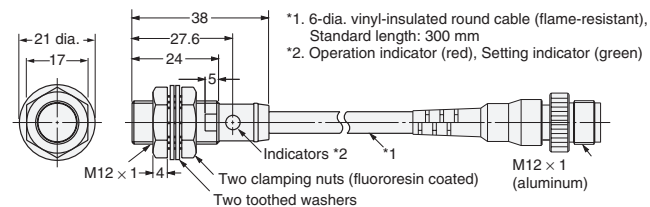


*1. 6-dia. vinyl-insulated round cable (Flame-resistant, Conductor cross section: 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 300 mm
 *2. Operation indicator (red), Setting indicator (green)

Standard Models

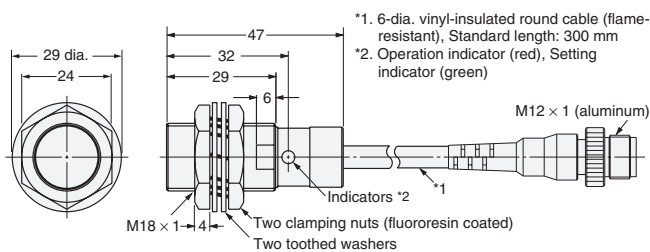


E2EQ-X3D1-M1(T)GJ



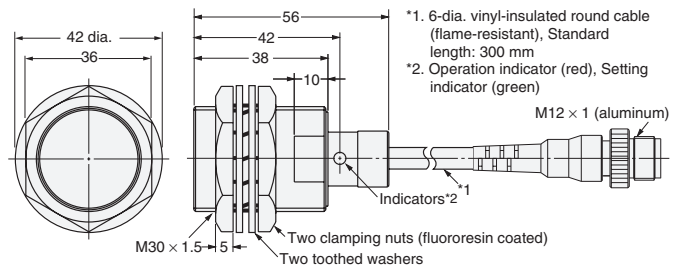
*1. 6-dia. vinyl-insulated round cable (flame-resistant), Standard length: 300 mm
 *2. Operation indicator (red), Setting indicator (green)

E2EQ-X7D1-M1(T)GJ



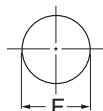
*1. 6-dia. vinyl-insulated round cable (flame-resistant), Standard length: 300 mm
 *2. Operation indicator (red), Setting indicator (green)

E2EQ-X10D1-M1(T)GJ



*1. 6-dia. vinyl-insulated round cable (flame-resistant), Standard length: 300 mm
 *2. Operation indicator (red), Setting indicator (green)

Mounting Hole Dimensions



| Model | E2EQ-X4X E2EQ-X3 | E2EQ-X8X E2EQ-X7 | E2EQ-X15X E2EQ-X10 |
|--------|--|--|--|
| F (mm) | 12.5 ^{+0.5} ₀ dia. | 18.5 ^{+0.5} ₀ dia. | 30.5 ^{+0.5} ₀ dia. |

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2012.8

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Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: ocean@oceanchips.ru

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А