E2EH

CSM E2FH DS F 4

Proximity Sensor Ideal for the Food and Beverage Industry

-SUS316L Body, IP69K Protection, Resistant to High Temperatures and Detergents-



Improved resistance to detergents and rusting



Applicable to 120°C (with DC 3-wire connection) (Heat resistance verified to 1,000 hours.)





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Resists typical detergents and disinfectants used in the food industry



Water resistant under high-temperature, high-pressure cleaning based on DIN 40050-9. (Pressure: 8,000 to 10,000 kPa, Water temperature: 80°C, For 30 s at all angles)



Be sure to read Safety Precautions on page 9.

Ordering Information

Sensors [Refer to Dimensions on page 10.]

Pre-wired Models *1

| Appea | Appearance Sensing distance | | Output configuration | Operation mode: NO | Operation mode: NC | |
|----------|-----------------------------|------|----------------------|----------------------------|--------------------|---------------|
| | | | | DC 2-wire (polarity) | E2EH-X3D1 2M | E2EH-X3D2 2M |
| | M12 | | | DC 2-wire (no polarity) *2 | E2EH-X3D1-T 2M | |
| | IVIIZ | 3 mn | n | DC 3-wire (PNP) | E2EH-X3B1 2M | E2EH-X3B2 2M |
| | | | | DC 3-wire (NPN) | E2EH-X3C1 2M | E2EH-X3C2 2M |
| 01:11 | | | | DC 2-wire (polarity) | E2EH-X7D1 2M | E2EH-X7D2 2M |
| Shielded | M18 | 7 | | DC 2-wire (no polarity) *2 | E2EH-X7D1-T 2M | |
| | | | mm | DC 3-wire (PNP) | E2EH-X7B1 2M | E2EH-X7B2 2M |
| | | | | DC 3-wire (NPN) | E2EH-X7C1 2M | E2EH-X7C2 2M |
| | | | | DC 2-wire (polarity) | E2EH-X12D1 2M | E2EH-X12D2 2M |
| | M30 | | 10 | DC 2-wire (no polarity) *2 | E2EH-X12D1-T 2M | |
| | IVISU | | 12 mm | DC 3-wire (PNP) | E2EH-X12B1 2M | E2EH-X12B2 2M |
| | | | | DC 3-wire (NPN) | E2EH-X12C1 2M | E2EH-X12C2 2M |

Connector Models (M12)

| Appear | Appearance Sensing distance | | Output configuration | Operation mode: NO | Operation mode: NC | |
|------------|-----------------------------|------|----------------------|----------------------|--------------------|----------------|
| | | | | DC 2-wire (polarity) | E2EH-X3D1-M1G | E2EH-X3D2-M1G |
| | M12 | 3 mm | | DC 3-wire (PNP) | E2EH-X3B1-M1 | E2EH-X3B2-M1 |
| | | | | DC 3-wire (NPN) | E2EH-X3C1-M1 | E2EH-X3C2-M1 |
| Shielded | | | | DC 2-wire (polarity) | E2EH-X7D1-M1G | E2EH-X7D2-M1G |
| | M18 | 7 mr | mm | DC 3-wire (PNP) | E2EH-X7B1-M1 | E2EH-X7B2-M1 |
| | | | | DC 3-wire (NPN) | E2EH-X7C1-M1 | E2EH-X7C2-M1 |
| <i>071</i> | | | | DC 2-wire (polarity) | E2EH-X12D1-M1G | E2EH-X12D2-M1G |
| | M30 | 1 | 12 mm | DC 3-wire (PNP) | E2EH-X12B1-M1 | E2EH-X12B2-M1 |
| | | | | DC 3-wire (NPN) | E2EH-X12C1-M1 | E2EH-X12C2-M1 |

^{*1.} The standard cable length is 2 m. An optional 5 m model is also available. Contact your OMRON representative for more information. For details, refer to the *Proximity Sensors Technical Guide*.

^{*2.} When using a no-polarity model, there is no need to be concerned about whether to connect to the positive or negative side of the power supply. The load can be connected to either the +V side or 0 V side.

Accessories (Order Separately)

Sensor I/O Connectors (M12) (Models for Connectors: A Connector is not provided with the Sensor. Be sure to order a Connector separately.) [Refer to XS2.]

| Appearance | Cable length | Sensor I/O Connector model | Applicable Proximity Sensors |
|----------------|--------------|----------------------------|-------------------------------|
| Straight | 2 m | XS2F-E421-D80-E | |
| and the second | 5 m | XS2F-E421-G80-E | E2EH-X□D□-M1G E2EH-X□B□-M1 |
| L-shape | 2 m | XS2F-E422-D80-E | E2EH-X□C□-M1 |
| | 5 m | XS2F-E422-G80-E | |

Note: The above Connectors conform to DIN40050-9 standard, provide IP69K protection, have a maximum operating temperature of 105°C, and use SUS316L stainless steel.

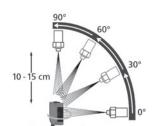
Ratings and Specifications

E2EH-X□D□ DC 2-Wire Models

| | Size | M12 | M18 | M30 | | |
|----------------------------------|----------------------------|--|---------------------------------|---------------------------------|--|--|
| | Shielded | | Shielded | | | |
| Item | Model | E2EH-X3D□ | E2EH-X7D□ | E2EH-X12D□ | | |
| Sensing distan | ce | 3 mm | 7 mm | 12 mm | | |
| Set distance *1 | | 0 to 2.4 mm | 0 to 5.6 mm | 0 to 9.6 mm | | |
| Differential trav | /el | 15% max. of sensing distance | | <u> </u> | | |
| Detectable obje | ect | Ferrous metal (The sensing dis Refer to <i>Engineering Data</i> on p | | ous metal. | | |
| Standard sensi | ng object | Iron, 12 × 12 × 1 mm | Iron $21 \times 21 \times 1$ mm | Iron $36 \times 36 \times 1$ mm | | |
| Response freq | uency *2 | 500 Hz | 300 Hz | 100 Hz | | |
| Power supply voltage range) | oltage (operating | 12 to 24 VDC, ripple (p-p): 10% (10 to 32 VDC, however, 24 V | | 100°C) | | |
| Leakage currer | nt | 0.8 mA max. | | | | |
| Control out | Load current | 3 to 100 mA (however, 3 to 50 | mA at 100 to 110°C) | | | |
| Control out- put | Residual voltage *3 | Polarity Models: 3 V max. No polarity Models: E2EH-X\[D\[D\]-T: (5 V max. *3 (Load current: 100 mA, Cable length 2 m) | | | | |
| Indicators | | D1 Models: Operation indicator (red), Setting indicator (yellow) D2 Models: Operation indicator (yellow) | | | | |
| Operation mod ject approachir | e (with sensing ob- ng) | D1 Models: NO D2 Models: NC Refer to the timing charts under I/O Circuit Diagrams on page 7 for details. | | | | |
| Protection circuits | | Surge suppressor, Load short-circuit protection | | | | |
| Ambient tempe | erature range | Operating: 0 to 100°C (0 to 110°C 1,000 h) *4 Storage: -25 to 70° (with no icing or condensation) | | | | |
| Ambient humic | lity range | 35% to 95% | | | | |
| Temperature in | fluence | ±10% max. of sensing distance at 23°C in the temperature range of 0 to 70°C. ±15% max. of sensing distance at 23°C in the temperature range of 70 to 100°C. –15% to +20% of sensing distance at 23°C in the temperature range of 100 to 110°C. | | | | |
| Voltage influen | се | ±10% max. of sensing distance at rated voltage in the 15% rated voltage range. | | | | |
| Insulation resis | stance | 50 M Ω min. (at 500 VDC) betw | een current-carrying parts and | case | | |
| Dielectric stren | gth | 1,000 VAC, 50/60 Hz for 1 min between current-carrying parts and case | | | | |
| Vibration resist | tance | Destruction: 10 to 55 Hz 1.5-mm double amplitude for 2 hours each in X, Y and Z directions | | | | |
| Shock resistan | се | Destruction: 1,000 m/s ² , 10 tim | es each in X, Y and Z direction | s | | |
| Degree of prote | ection | IEC IP67, DIN 40050-9 IP69K | ' 5 | | | |
| Connection me | thod | Pre-wired Models (Standard ca | ble length 2 m), Connector Mo | dels | | |
| Weight | Pre-wired Models | Approx. 80 g | Approx. 145 g | Approx. 220 g | | |
| (packed state) | Connector Models | Approx. 30 g | Approx. 55 g | Approx. 125 g | | |
| | Case, clamping nut | Stainless steel (SUS316L) | | | | |
| Materials | Sensing surface | PBT | | | | |
| | Cable | Heat-resistant PVC cable (Pre- | wired model) | | | |
| Accessories | | Instruction manual | | | | |

^{*1.} Use the yellow indicator on D1 Models as a guide.

The distance between the test piece and nozzle is 10 to 15 cm, and water is sprayed horizontally for 30 seconds each at 0° , 30° , 60° , and 90° while rotating the test piece on a horizontal plane.



^{*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.

^{*3.} The residual voltage of each E2EH-X 🗆 D 🗅 DC 2-Wire Model is 5 V. When connecting to a device, make sure that the device can withstand the residual voltage.

⁽Refer to page 9.)

*4. Operation with power supplied for 1,000 h has been verified at 110°C. Do not bend the cable repeatedly at 100°C or higher.

*5. IP69K Degree of Protection Specification

IP69K is a protection standard against high temperature and high-pressure water defined in the German standard DIN 40050, Part 9. The test piece is sprayed with water at 80°C at a water pressure of 80 to 100 BAR using a specified nozzle shape at a rate of 14 to 16 liters/min.

E2EH-X□C□/B□ DC 3-Wire Models

| | Size | M12 | M18 | M30 | | |
|-------------------------------|-------------------------|---|---|---------------------------------|--|--|
| | Shielded | | Shielded | | | |
| Item | Model | E2EH-X3C□/B□ | E2EH-X7C□/B□ | E2EH-X12C□/B□ | | |
| Sensing distan | ce | 3 mm±10% | 7 mm±10% | 12 mm±10% | | |
| Set distance *1 | | 0 to 2.4 mm | 0 to 5.6 mm | 0 to 9.6 mm | | |
| Differential trav | rel . | 15% max. of sensing distance | | | | |
| Detectable obje | ect | Ferrous metal (The sensing dis Data on page 6.) | tance decreases with non-ferror | us metal. Refer to Engineering | | |
| Standard sensi | ng object | Iron, 12 × 12 × 1 mm | Iron 21 × 21 × 1 mm | Iron $36 \times 36 \times 1$ mm | | |
| Response frequency | uency *2 | 500 Hz | 300 Hz | 100 Hz | | |
| Power supply voltage range) | oltage (operating | 12 to 24 VDC, ripple (p-p): 10% (10 to 32 VDC, however, 24 VE | max. DC max. at temperatures over 10 | 00°C) | | |
| Current consur | nption | 10 mA max. | | | | |
| Control out- | Load current | 100 mA max. (however, 50 mA | max. at 100 to 120°C) | | | |
| put | Residual voltage | 2 V max. (Load current: 100 m/ | A, Cable length 2 m) | | | |
| Indicators | | Operation indicator (yellow) | | | | |
| Operating mod (with sensing o | e bject approaching) | C1 Models: NO C2 Models: NC B1 Models: NO B2 Models: NC | | | | |
| Protection circ | uits | Power supply reverse polarity protection, Surge suppressor, Load short-circuit protection, Reversed output polarity protection | | | | |
| Ambient tempe | rature range | Operating: 0 to 100°C (0 to 120°C 1,000 h) *2 Storage: -25 to 70°C (with no icing or condensation) | | | | |
| Ambient humid | lity range | 35% to 95% | | | | |
| Temperature in | fluence | ±10% max. of sensing distance at 23°C in the temperature range of 0 to 70°C. ±15% max. of sensing distance at 23°C in the temperature range of 70 to 100°C. –15% to 20% of sensing distance at 23°C in the temperature range of 100 to 120°C. | | | | |
| Voltage influen | ce | 10% max. of sensing distance at rated voltage in the 15% rated voltage range. | | | | |
| Insulation resis | stance | 50 M $Ω$ min. (at 500 VDC) between current-carrying parts and case | | | | |
| Dielectric stren | gth | 1,000 VAC, 50/60 Hz for 1 min between current-carrying parts and case | | | | |
| Vibration resist | tance | Destruction: 10 to 55 Hz 1.5-mm double amplitude for 2 hours each in X, Y and Z directions | | | | |
| Shock resistan | се | Destruction: 1,000 m/s², 10 times each in X, Y and Z directions | | | | |
| Degree of prote | ection | IEC IP67, DIN 40050-9 IP69K | | | | |
| Connection me | thod | Pre-wired Models (Standard ca | ble length 2 m), Connector Mod | lels | | |
| Weight | Pre-wired Models | Approx. 80 g | Approx. 145 g | Approx. 220 g | | |
| (packed state) | Connector Models | Approx. 30 g | Approx. 55 g | Approx. 125 g | | |
| | Case, clamping nut | Stainless steel (SUS316L) | | | | |
| Materials | Sensing surface | PBT | | | | |
| | Cable | Heat-resistant PVC cable (Pre- | wired Model) | | | |
| Accessories | | Instruction manual | | | | |

^{*1.} 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.

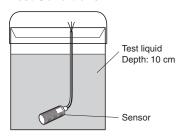
*2. Operation with power supplied for 1,000 h has been verified at 120°C. Do not bend the cable repeatedly at 100°C or higher.

Resistance to Detergents, Disinfectants, and Chemicals

- Performance is assured for typical detergents and disinfectants, but performance may not be maintained for some detergents and disinfectants. Refer to the following table when using these agents.
- The E2EH passed testing for resistance to detergents and disinfectants performed using the items in the following table. Refer to this table when considering use of detergents and disinfectants.

| Category | Product name | Concentration | Temperature | Time |
|-----------------------|--|---------------|-------------|-------|
| | Sodium hydroxide (NaOH) | 1.5% | 70°C | 240h |
| | Potassium hydroxide (KOH) | 1.5% | 70°C | 240h |
| Chemical | Phosphoric acid (H ₃ PO ₄) | 2.5% | 70°C | 240h |
| | Sodium hypochlorite (NaClO) | 0.3% | 25°C | 240h |
| | Hydrogen peroxide (H ₂ O ₂) | 6.5% | 25°C | 240h |
| Alkaline foam | P3-topax-66s (Manufactured by Ecolab) | 3.0% | 70°C | 240h |
| detergent | 1 5-topax-005 (Manufactured by Ecolab) | 3.0 /8 | 700 | 24011 |
| Acidic foam detergent | P3-topax-56 (Manufactured by Ecolab) | 5.0% | 70°C | 240h |
| Disinfectant | P3-oxonia active 90 (Manufactured by Ecolab) | 1.0% | 25°C | 240h |

Test Conditions



After the test is completed, check that no problems exist with the following product characteristics.

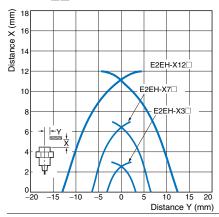
- (1) Appearance (no damage that will affect the product characteristics)
- (2) Operation Check (ON/OFF)
- (3) Insulation resistance: 50 M Ω min. (at 500 VDC)
- (4) Dielectric strength (1,000 VAC for 1 minute)
- (5) Water resistance (IP67)

Engineering Data (Typical)

Sensing Area

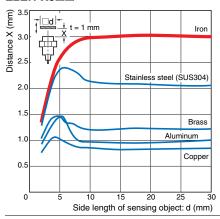
Shielded Models

E2EH-X□□

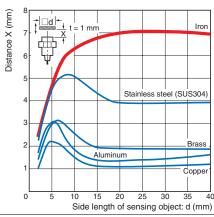


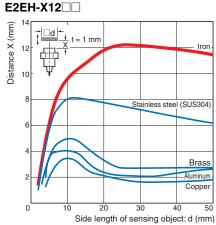
Influence of Sensing Object Size and Material

E2EH-X3□□



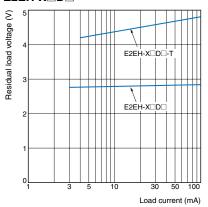
E2EH-X7□□





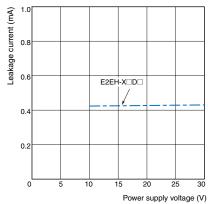
Residual Output Voltage

E2EH-X D



Leakage Current

E2EH-X□D□



I/O Circuit Diagrams

E2EH-X□**D**□ **DC 2-Wire Models**

| Operating mode | Model | Timing charts | Output circuit |
|----------------|----------------------------|--|--|
| | E2EH-X□D1 E2EH-X□D1-M1G | Unstable ↓ Set position Non-sensing area area Sensing Stable sensing area Proximity Sensor object | Polarity: Yes (1) Brown Brown (4) Note: The load can be connected to either the +V or 0 V side. |
| NO | E2EH-X□D1-T | (%) 100 80 0 Rated sensing distance ON Setting indicator OFF (yellow) ON Operation indicator OFF (red) ON OFF | Polarity: None Proximity Load |
| NC | E2EH-X□D2 E2EH-X□D2-M1G | Non-sensing area Sensing area Proximity sensor (%) 100 0 Rated sensing distance ON Operation indicator OFF (yellow) ON Control output | Proximity Sensor (1) Brown (2) Blue 0 V Note: The load can be connected to either the +V or 0 V side. |

DC 3-Wire Models

| Operating mode | Output specifications | Model | Timing charts | Output circuit |
|----------------|---------------------------------|-----------|--|---|
| NO | NPN | E2EH-X□C1 | Sensing object Present Not present Operation indicator ON (yellow) OFF Control output ON OFF | (1) Brown +V Proximity Sensor Black Black |
| NC | Open-collector output | E2EH-X□C2 | Sensing object Present Not present Operation indicator ON (yellow) OFF Control output ON OFF | Note: Use pin 1, 4, and 3 for NO. Use pin 1, 2, and 3 for NC. |
| NO | PNP Open-collector output | E2EH-X□B1 | Sensing object Present Not present Operation indicator ON (yellow) OFF Control output ON OFF | (1) Brown +V Proximity Sensor Black Black |
| NC | | E2EH-X□B2 | Sensing object Present Not present Operation indicator ON (yellow) OFF Control output ON OFF | Note: Use pin 1, 4, and 3 for NO. Use pin 1, 2, and 3 for NC. |

Connections for Sensor I/O Connectors

| Con- | | Proximity | Sensor | | |
|---------------------|---------------------------------|----------------|------------------------------|--|--|
| nection diagram No. | Туре | Operating mode | Model | Sensor I/O Connector model | Connections |
| 1 | DC 2-wire | NO | E2EH-X□D1-M1G | | E2EH XS2F * O Brown (+) O Blue (not connected) O Blue (not connected) O Black (-) |
| 2 | - (IEC pin wiring) | NC | E2EH-X□D2-M1G | T: Straight 2: L-shape XS2F-E42 80-E D: 2-m cable G: 5-m cable | E2EH XS2F * 1 |
| 3 | DC 3-wire | NO | E2EH-X□B1-M1 E2EH-X□C1-M1 | | E2EH XS2F * O Brown (+V) O White (not connected) O Black (output) |
| 4 | NC E2EH-X□B2-M1 E2EH-X□C2-M1 | | | EZEH XS2F * Brown (+V) White (output) Blue (0 V) Black (not connected) | |

^{*}XS2F wire colors differ from Proximity Sensor wire colors.

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

Safety Precautions

Refer to Warranty and Limitations of Liability for details.



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



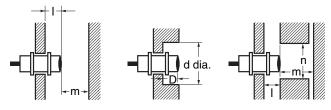
Precautions for Correct Use

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.



Influence of Surrounding Metal

(Unit: mm)

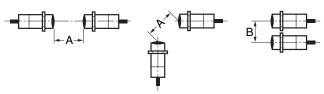
| Туре | | Item | M12 | M18 | M30 |
|-------------------------|----------|------|-----|-----|-----|
| | | I | 2.4 | 3.6 | 6 |
| DC 0 wire F0FM | | d | 18 | 27 | 50 |
| DC 2-wire E2EM- X□D□ | Shielded | D | 2.4 | 3.6 | 6 |
| | | m | 12 | 24 | 45 |
| | | n | 18 | 27 | 50 |
| | | ı | 2.4 | 3.6 | 6 |
| DC 3-wire | Shielded | d | 18 | 27 | 50 |
| E2EH-X□B□ E2EH-X□C□ | | D | 2.4 | 3.6 | 6 |
| | | m | 12 | 24 | 45 |
| | | n | 18 | 27 | 50 |

AND/OR Connections

Error pulses and leakage current may prevent application in AND or OR circuits. Always confirm operation in advance to confirm if there are any problems in operation.

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)

| Туре | Item | M12 | M18 | M30 | |
|------------------------|-----------|-----|-----|-----|-----|
| DC 2-wire | Shielded | Α | 30 | 60 | 110 |
| E2EH-X□D□ | Sillelueu | В | 20 | 35 | 90 |
| DC 3-wire | | Α | 30 | 60 | 110 |
| E2EH-X□B□ E2EH-X□C□ | Shielded | В | 20 | 35 | 90 |

Connecting a DC 2-wire Proximity Sensor to a PLC (Programmable Controller)

Required Conditions

Connection to a PLC is possible if the specifications of the PLC and Proximity Sensor satisfy the following conditions. (The meanings of the symbols are given below.)

The ON voltage of the PLC and the residual voltage of the Proximity Sensor must satisfy the following.

Von ≤ Vcc - VF

2. The OFF current of the PLC and the leakage current of the Proximity Sensor must satisfy the following.

 $IOFF \ge I_{leak}$

(If the OFF current is not listed in the specifications, take it to be 1.3 mA.)

3. The ON current of the PLC and the control output of the Proximity Sensor must satisfy the following.

 $\mathsf{IOUT}\;(\mathsf{min}) \leq \mathsf{ION} \leq \mathsf{IOUT}\;(\mathsf{max})$

The ON current will vary, however, with the power supply voltage and the input impedance, as shown in the following equation.

 $Ion = (Vcc - Vr - \underline{Vpc}) / Rin$

Example

In this example, the above conditions are checked when the PLC Unit is the C200H-ID212, the Proximity Sensor is the E2EH-X7D1-T, and the power supply voltage is 24 V.

1. Von $(14.4 \text{ V}) \le \text{Vcc} (20.4 \text{ V}) - \text{Vr} (5 \text{ V}) = 15.4 \text{ V}$: OK

2. IOFF (1.3 mA) ≥ Ileak (0.8 mA) : OK

3. Ion = [Vcc (20.4 V) – VR (5 V) – $\underline{\text{VPc (4 V)}}$] / Rin (3 k Ω) \cong Approx. 3.8 mA

Therefore, IOUT (min) $(3 \text{ mA}) \leq ION (3.8 \text{ mA})$: OK

ON voltage of PLC (14.4 V)
ON current of PLC (typ. 7 mA)
OFF current of PLC (1.3 mA)
Input impedance of PLC (3×0)
Internal residual voltage of PLC (4×0)
Output residual voltage of Proximity Sensor (5×0)
Leakage current of Proximity Sensor (3×0 to 100×0)
Power supply voltage (PLC: 20.4×0 26.4 V)

Values in parentheses apply to the following PLC model and Proximity Sensor model.

PLC: C200H-ID212 Sensor: E2EH-X7D1-T

Von:

ION:

RIN:

VPC:

VR:

lleak

IOUT:

Vcc:

9

Mounting

Tightening Force

Do not tighten the nut with excessive force.

| Model | Torque |
|-------|---------|
| M12 | 30 N⋅m |
| M18 | 70 N⋅m |
| M30 | 180 N⋅m |

Dimensions

(Unit: mm) Tolerance class IT16 applies to dimensions in this data sheet unless otherwise specified.

Pre-wired Models (Shielded)





| Dimensions | M12 | M18 | M30 |
|------------|---------------------------|---------------------------|---------------------------|
| F (mm) | 12.5 ^{+0.5} dia. | 18.5 ^{+0.5} dia. | 30.5 ^{+0.5} dia. |

Connector Models (Shielded)

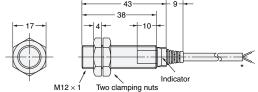






| Dimensions | M12 | M18 | M30 |
|------------|---------------------------|---------------------------|---------------------------|
| F (mm) | 12.5 ^{+0.5} dia. | 18.5 ^{+0.5} dia. | 30.5 ^{+0.5} dia. |

E2EH-X3□□



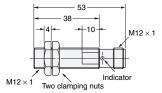
*4-dia, 2-conductor heat-resistant PVC cable

(Conductor cross section: 0.3 mm², insulator diameter: 1.3 mm), Standard length: 2 m.

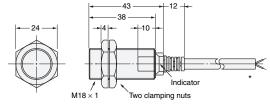
4-dia. 3-conductor heat-resistant PVC cable (Conductor cross section: 0.3 mm², insulator diameter: 1.3 mm), Standard length: 2 m.

E2EH-X3□□-M1□





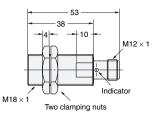
E2EH-X7



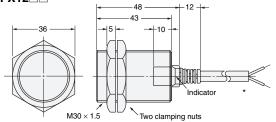
*6-dia. 2-conductor heat-resistant PVC cable (Conductor cross section: 0.5 mm², insulator diameter: 1.9 mm), Standard length: 2 m. 6-dia. 3-conductor heat-resistant PVC cable (Conductor cross section: 0.5 mm², insulator diameter: 1.9 mm), Standard length: 2 m.

E2EH-X7 ...-M1



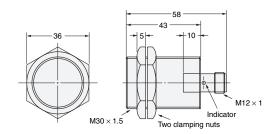


E2EH-X12□□



*6-dia. 2-conductor heat-resistant PVC cable o-uia. 2-conductor fleat-resistant PVC cable (Conductor cross section: 0.5 mm², insulator diameter: 1.9 mm), Standard length: 2 m. 6-dia. 3-conductor heat-resistant PVC cable (Conductor cross section: 0.5 mm², insulator diameter: 1.9 mm), Standard length: 2 m.

E2EH-X12 -M1



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