

## Proximity Sensor with Resin Case with Superb Water Resistance

- Rugged, watertight plastic housing offers good chemical resistance and withstands washdown; IP68 protection
- Wide operating voltages: 10 to 30 VDC and 20 to 264 VAC
- Operation indicator on all models
- Short-circuit protection available on all DC and some AC models
- Mutual interference prevention with models with different frequencies is also available.



Be sure to read *Safety Precautions* on page 5.

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 6.]

Model	Sensing distance	Output configuration	Model	
			Operation mode	
			NO	NC
Shielded 	M8 1.5 mm	DC 3-wire, NPN	E2F-X1R5E1 2M	E2F-X1R5E2 2M
		AC 2-wire	E2F-X1R5Y1 2M	E2F-X1R5Y2 2M
	M12 2 mm	DC 3-wire, NPN	E2F-X2E1 2M *1	E2F-X2E2 2M *1
		AC 2-wire	E2F-X2Y1 2M *1	E2F-X2Y2 2M *1
	M18 5 mm	DC 3-wire, NPN	E2F-X5E1 2M *1	E2F-X5E2 2M *1
		AC 2-wire	E2F-X5Y1 2M *1 *2	E2F-X5Y2 2M *1 *2
	M30 10 mm	DC 3-wire, NPN	E2F-X10E1 2M *1	E2F-X10E2 2M *1
		AC 2-wire	E2F-X10Y1 2M *1 *2	E2F-X10Y2 2M *1 *2

\*1. Models with different frequencies are also available. The model numbers are E2F-X□□□5 (e.g., E2F-X5E15).

\*2. Models are also available with short-circuit protection. The model numbers are E2F-X□Y□-53 (e.g., E2F-X5Y1-53). The power supply voltage, however, is 100 to 120 VAC.

## Ordering Information

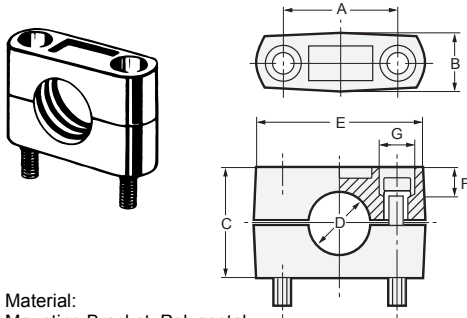
### Accessories (Order Separately)

#### Protective Covers

Refer to Y92□ for details.

#### Mounting Brackets

Special resin mounting sleeves: Four different models available.  
Simply select the size that fits the outside diameter of the Sensor.



Material:  
Mounting Bracket: Polyacetal  
Hexagonal bolt and spring washer: Nickel-plated iron

#### Mounting Bracket Dimensions

Item Model	Dimension (mm)							Applied hexagonal bolts	Applicable Sensor diameter
	A	B	C	D	E	F	G		
Y92E-B8	18±0.2	10 max.	18	8 dia.	28max.	6	7.4 dia.	M4 × 20	M8
Y92E-B12	24±0.2	12.5 max.	20	12 dia.	37max.	6	8 dia.	M4 × 25	M12
Y92E-B18	32±0.2	17 max.	30	18 dia.	47max.	7	9.8 dia.	M5 × 32	M18
Y92E-B30	45±0.2	17 max.	50	30 dia.	60max.	10	9.8 dia.	M5 × 50	M30

Note: Consider the influence of surrounding metal when mounting non-shielded Sensors. (Refer to information on individual Sensors for dimensions.)

#### Nut Sets

These nut sets are for mounting the Sensors. Order them if you lose the mounting nuts supplied with the sensor. Order the correct set for the outer diameter of your Sensor.

Model	Item	Applicable Sensor	Applicable Sensor diameter	Set contents
Y92E-NWM08-E2F	E2F		M8	Clamping nuts (polyacetal): 2
Y92E-NWM12-E2F			M12	
Y92E-NWM18-E2F			M18	
Y92E-NWM30-E2F			M30	

## Ratings and Specifications

Model		E2F-X1R5E□ E2F-X1R5Y□	E2F-X2E□ E2F-X2Y□	E2F-X5E□ E2F-X5Y□	E2F-X10E□ E2F-X10Y□
<b>Item</b>					
<b>Sensing distance</b>		1.5 mm ±10%	2 mm ±10%	5 mm ±10%	10 mm ±10%
<b>Set distance</b>		0 to 1.2 mm	0 to 1.6 mm	0 to 4 mm	0 to 8 mm
<b>Differential travel</b>		10% max. of sensing distance			
<b>Detectable object</b>		Ferrous metal (The sensing distance decreases with non-ferrous metal. Refer to <i>Engineering Data</i> on page 3.)			
<b>Standard sensing object</b>		Iron, 8 × 8 × 1 mm	Iron, 12 × 12 × 1 mm	Iron, 18 × 18 × 1 mm	Iron, 30 × 30 × 1 mm
<b>Response frequency *1</b>		E Models: 2 kHz, Y Models: 25 Hz	E Models: 1.5 kHz, Y Models: 25 Hz	E Models: 600 Hz, Y Models: 25 Hz	E Models: 400 Hz, Y Models: 25 Hz
<b>Power supply voltage (operating voltage range)</b>		E Models: 12 to 24 VDC (10 to 30 VDC), ripple (p-p): 10% max. Y Models: 24 to 240 VAC (20 to 264 VAC)			
<b>Current consumption</b>		E Models: 17 mA max.			
<b>Leakage current</b>		Y Models: 1.7 mA max. at 200 VAC (Refer to <i>Engineering Data</i> on page 3.)			
<b>Control output</b>	<b>Load current</b>	E Models: 200 mA max. Y Models: 5 to 100 mA		E Models: 200 mA max. Y Models: 5 to 300 mA	
	<b>Residual voltage</b>	E Models: 2 V max. (Load current: 200 mA, Cable length: 2 m) Y Models: Refer to <i>Engineering Data</i> on page 4.			
<b>Indicators</b>		E1 Models: Detection indicator (red), E2 Models: Operation indicator (red) Y Models: Operation indicator (red)			
<b>Operation mode (with sensing object approaching)</b>		E1/Y1 Models: NO Refer to the timing charts under <i>I/O Circuit Diagrams</i> on page 4 for details. E2/Y2 Models: NC			
<b>Protection circuits</b>		E Models: Reverse polarity protection, Load short-circuit protection, Surge suppressor; Y Models: None			
<b>Ambient temperature range</b>		Operating/Storage: -25 to 70°C (with no icing or condensation)			
<b>Ambient humidity range</b>		Operating/Storage: 35% to 95%			
<b>Temperature influence</b>		±10% max. of sensing distance at 23°C in the temperature range of -25 to 70°C			
<b>Voltage influence</b>		E Models: ±2.5% max. of sensing distance at rated voltage in rated voltage ±15% range Y Models: ±1% max. of sensing distance at rated voltage in rated voltage ±10% range			
<b>Insulation resistance</b>		50 MΩ min. (at 500 VDC) between current-carrying parts and case			
<b>Dielectric strength</b>		E Models: 1,000 VAC, 50/60 Hz for 1 min between current-carrying parts and case Y Models: (M8 Models): 2,000 VAC, 50/60 Hz for 1 min between current-carrying parts and case (Other M8 Models): 4,000 VAC, 50/60 Hz for 1 min between current-carrying parts and case			
<b>Vibration resistance</b>		Destruction: 10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions			
<b>Shock resistance</b>		Destruction: 1,000 m/s <sup>2</sup> 10 times each in X, Y, and Z directions			
<b>Degree of protection</b>		IEC 60529 IP68, in-house standards: oil-resistant *2			
<b>Connection method</b>		Pre-wired Models (Standard cable length: 2 m)			
<b>Weight (packed state)</b>		Approx. 40 g	Approx. 50 g	Approx. 130 g	Approx. 170 g
<b>Materials</b>	<b>Case</b>	Polyarylate resin			
	<b>Sensing surface</b>				
	<b>Clamping nuts</b>	Polyacetal			
<b>Accessories</b>		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. When using the Sensor in environments subject to splashing cutting oil, deterioration may result due to the additives in the oil. The E2E is recommended in such environments.

### OMRON Test Method

Usage conditions: 10 m or less under water in natural conditions

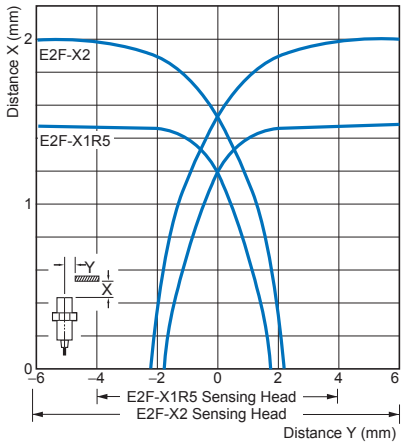
1. No water ingress after 1 hour under water at 2 atmospheres of pressure.

2. Sensing distance and insulation resistance specifications must be met after 20 repetitions of 1 hour in 0°C water and 1 hour in 70°C water.

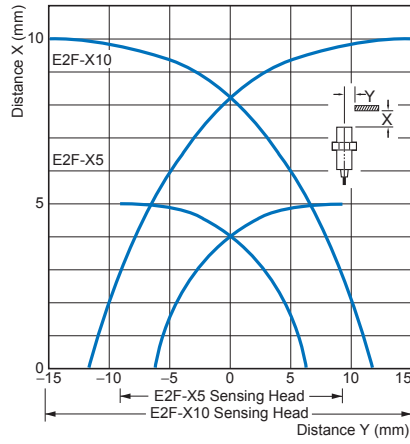
# Engineering Data (Reference Value)

## Sensing Area

E2F-X1R5□□/-X2□□

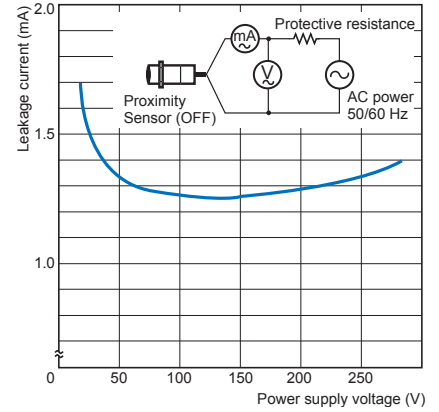


E2F-X5□□/-X10□□



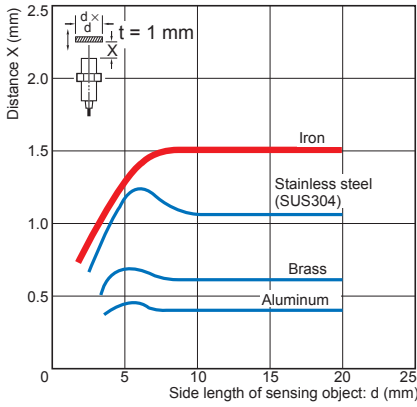
## Leakage Current

E2F-X□Y□

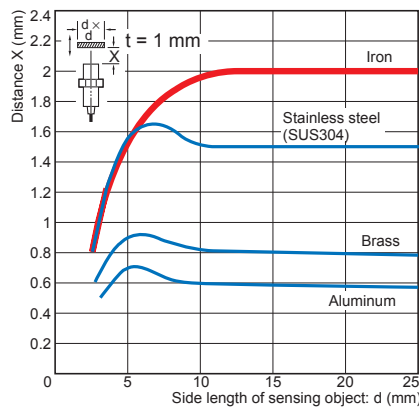


## Influence of Sensing Object Size and Material

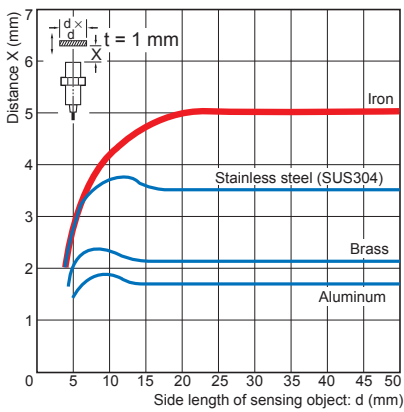
E2F-X1R5□□



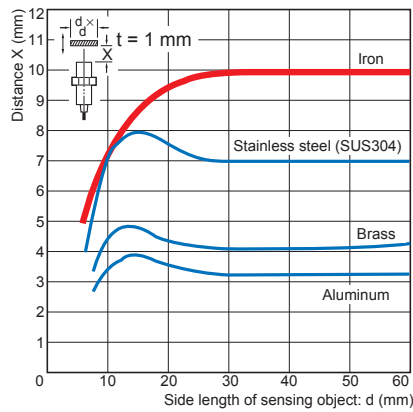
E2F-X2□□



E2F-X5□□

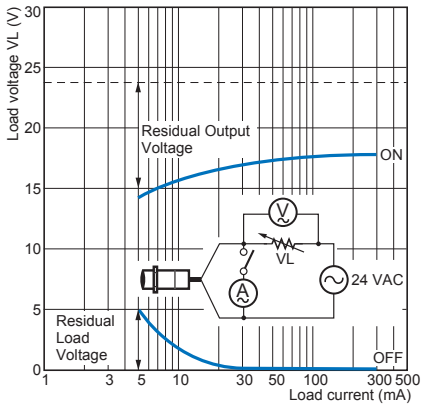


E2F-X10□□

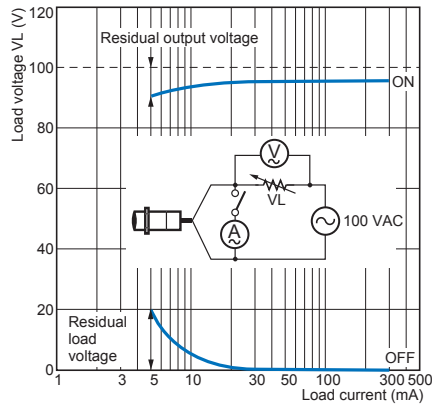


Residual Output Voltage

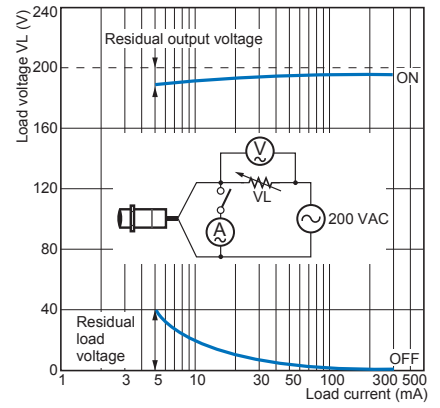
E2F-X□Y□ at 24 VAC



E2F-X□Y□ at 100 VAC



E2F-X□Y□ at 200 VAC



I/O Circuit Diagrams

Output configuration	Operation mode	Model	Timing chart	Output circuit
DC 3-wire	NO	E2F-X1R5E1 E2F-X2E1 E2F-X5E1 E2F-X10E1	<p>Sensing object: Present (High), Not present (Low)</p> <p>Load (between brown and black leads): Operate (High), Reset (Low)</p> <p>Output voltage (between black and blue leads): High, Low</p> <p>Detection indicator (red): ON, OFF</p>	<p><b>E2F-X1R5□</b></p> <p>*1. Load current: 200 mA max. *2. When a transistor is connected.</p>
	NC	E2F-X1R5E2 E2F-X2E2 E2F-X5E2 E2F-X10E2	<p>Sensing object: Present (High), Not present (Low)</p> <p>Load (between brown and black leads): Operate (Low), Reset (High)</p> <p>Output voltage (between black and blue leads): High, Low</p> <p>Detection indicator (red): ON, OFF</p>	<p><b>Except the E2F-X1R5□.</b></p> <p>*1. Load current: 200 mA max. *2. When a transistor is connected.</p>
AC 2-wire	NO	E2F-X1R5Y1 E2F-X2Y1 E2F-X5Y1 E2F-X10Y1	<p>Sensing object: Present (High), Not present (Low)</p> <p>Load: Operate (High), Reset (Low)</p> <p>Operation indicator (red): ON, OFF</p>	
	NC	E2F-X1R5Y2 E2F-X2Y2 E2F-X5Y2 E2F-X10Y2	<p>Sensing object: Present (High), Not present (Low)</p> <p>Load: Operate (Low), Reset (High)</p> <p>Operation indicator (red): ON, OFF</p>	

## 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.



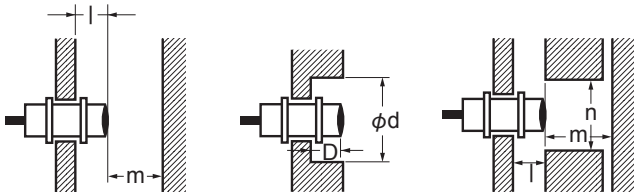
### Precautions for Correct Use

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.

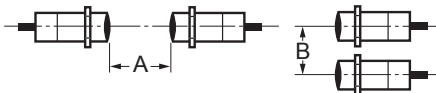


**Influence of Surrounding Metal** (Unit: mm)

Model	Item	l	d	D	m	n
E2F-X1R5□□	0	8	0	0	4.5	12
E2F-X2□□		12			8	18
E2F-X5□□		18			20	27
E2F-X10□□		30			40	45

##### Mutual Interference

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



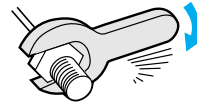
**Mutual Interference** (Unit: mm)

Model	Item	A	B
E2F-X1R5□□		20	15
E2F-X2□□		30 (20)	20 (12)
E2F-X5□□		50 (30)	35 (18)
E2F-X10□□		100 (50)	70 (35)

Note: Values in parentheses apply to Sensors operating at different frequencies. Models numbers for Sensors with different frequencies are E2F-X□□□5.

#### ● Mounting

Do not tighten the nut with excessive force.



Model	Torque
E2F-X1R5□□	0.78 N·m
E2F-X2□□	
E2F-X5□□	2 N·m
E2F-X10□□	

#### ● Maintenance and Inspection

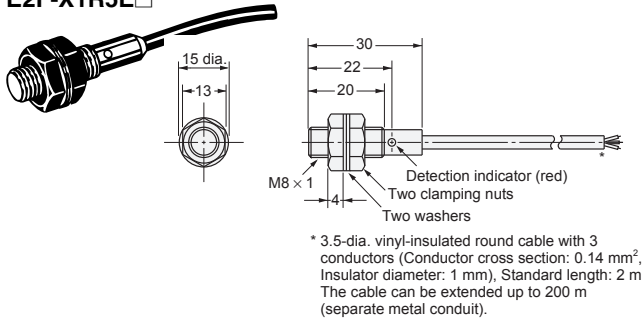
Do not use AC 2-Wire Models in water or in locations subject to water if the sensing surface or any other part of the Sensor is damaged, e.g., from contact with the sensing object. Electric shock may result.

Dimensions

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

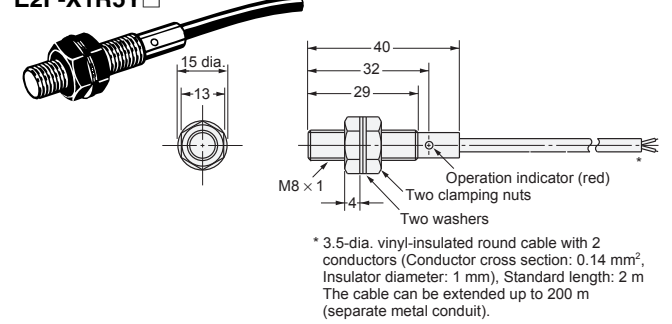
DC 3-Wire Models

E2F-X1R5E

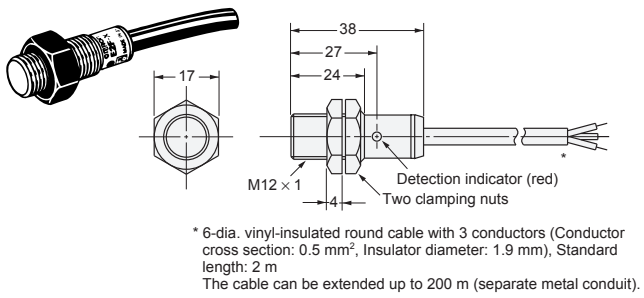


AC 2-Wire Models

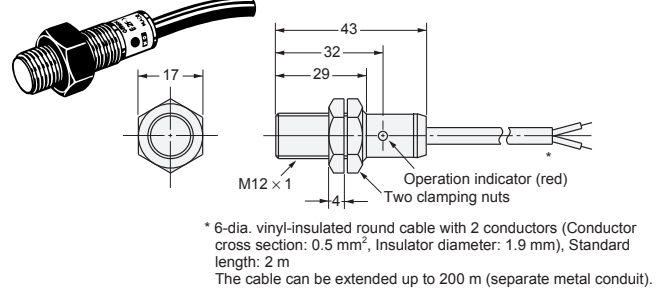
E2F-X1R5Y



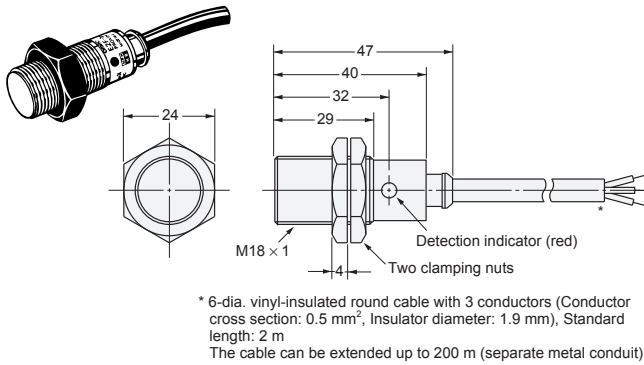
E2F-X2E



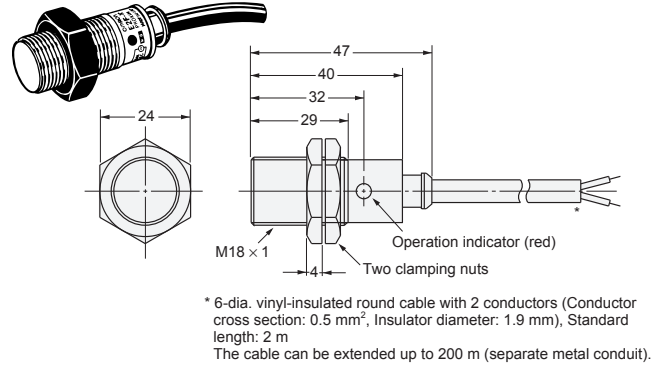
E2F-X2Y



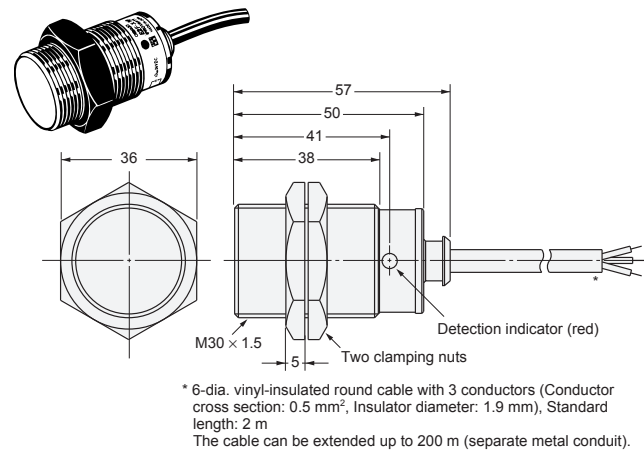
E2F-X5E



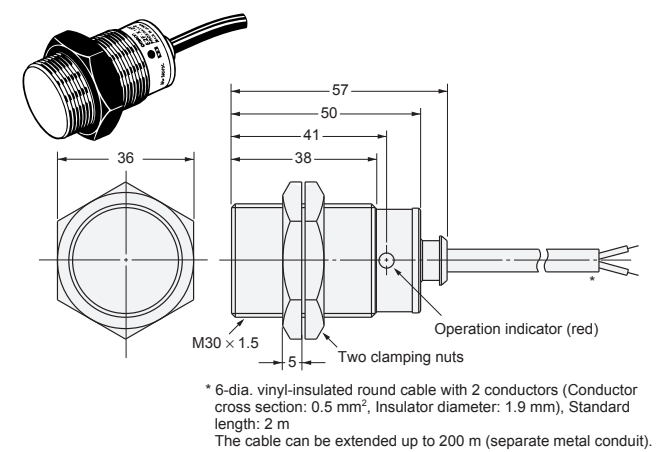
E2F-X5Y



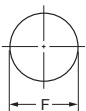
E2F-X10E



E2F-X10Y



Mounting Hole Dimensions



Model	E2F-X1R5	E2F-X2	E2F-X5	E2F-X10
F (mm)	8.5 <sup>+0.5</sup> <sub>0</sub> dia.	12.5 <sup>+0.5</sup> <sub>0</sub> dia.	18.5 <sup>+0.5</sup> <sub>0</sub> dia.	30.5 <sup>+0.5</sup> <sub>0</sub> dia.

# Terms and Conditions of Sale

1. **Offer; Acceptance.** These terms and conditions (these "**Terms**") are deemed part of all quotes, agreements, purchase orders, acknowledgments, price lists, catalogs, manuals, brochures and other documents, whether electronic or in writing, relating to the sale of products or services (collectively, the "**Products**") by Omron Electronics LLC and its subsidiary companies ("**Omron**"). Omron objects to any terms or conditions proposed in Buyer's purchase order or other documents which are inconsistent with, or in addition to, these Terms.
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3. **Discounts.** Cash discounts, if any, will apply only on the net amount of invoices sent to Buyer after deducting transportation charges, taxes and duties, and will be allowed only if (i) the invoice is paid according to Omron's payment terms and (ii) Buyer has no past due amounts.
4. **Interest.** Omron, at its option, may charge Buyer 1-1/2% interest per month or the maximum legal rate, whichever is less, on any balance not paid within the stated terms.
5. **Orders.** Omron will accept no order less than \$200 net billing.
6. **Governmental Approvals.** Buyer shall be responsible for, and shall bear all costs involved in, obtaining any government approvals required for the importation or sale of the Products.
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  - b. Such carrier shall act as the agent of Buyer and delivery to such carrier shall constitute delivery to Buyer;
  - c. All sales and shipments of Products shall be FOB shipping point (unless otherwise stated in writing by Omron), at which point title and risk of loss shall pass from Omron to Buyer; provided that Omron shall retain a security interest in the Products until the full purchase price is paid;
  - d. Delivery and shipping dates are estimates only; and
  - e. Omron will package Products as it deems proper for protection against normal handling and extra charges apply to special conditions.
12. **Claims.** Any claim by Buyer against Omron for shortage or damage to the Products occurring before delivery to the carrier must be presented in writing to Omron within 30 days of receipt of shipment and include the original transportation bill signed by the carrier noting that the carrier received the Products from Omron in the condition claimed.
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16. **Property; Confidentiality.** Any intellectual property in the Products is the exclusive property of Omron Companies and Buyer shall not attempt to duplicate it in any way without the written permission of Omron. Notwithstanding any charges to Buyer for engineering or tooling, all engineering and tooling shall remain the exclusive property of Omron. All information and materials supplied by Omron to Buyer relating to the Products are confidential and proprietary, and Buyer shall limit distribution thereof to its trusted employees and strictly prevent disclosure to any third party.
17. **Export Controls.** Buyer shall comply with all applicable laws, regulations and licenses regarding (i) export of products or information; (ii) sale of products to "forbidden" or other proscribed persons; and (iii) disclosure to non-citizens of regulated technology or information.
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