

Highly Durable Proximity Sensor for Tough Environments



- Completely stainless-steel housing
- Aluminum chip immunity
- Embedding installation to metal (steel) fittings
- Chemical resistance certified by Ecolab Europe
- Lineup includes pre-wire models and DC 3-wire NPN output models with fluororesin coating.



Be sure to read *Safety Precautions* on page 9.

Note: Models with a fluororesin coating also use vinyl chloride for the cable material and require separate protection.

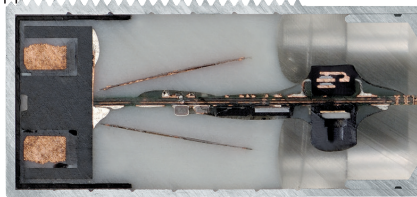
For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Features

One-piece completely stainless-steel housing with a face thickness of 0.8 mm

The face thickness is approximately 4 times that of previous models (E2ES) to enable sensing in even more severe conditions than ever.

0.8 mm



Brush Test



After 3 Minutes



E2FM

E2EQ

(Spatter-resistant)

The stainless-steel head means almost no wear when cleaned with a metal brush.

Continuous Impact Test



E2ES

E2FM

The E2ES with a top wall thickness of 0.2 mm was **penetrated** after 10,000 impacts.

The E2FM was not **penetrated** after 250,000 impacts (depth: 0.26 mm).

More than 20 times the durability of the E2ES!

Chemical and Detergent Proof

The one-piece completely stainless-steel housing of the sensing section withstands the following chemicals better.

- Sodium chloride
- Gasoline
- Dilute sodium hydroxide
- Dilute hydrochloric acid
- Mineral oil
- Barium hydroxide
- Any many others

Note: Cannot be used for explosion-proof applications.

Архангельск (8182)63-90-72
Астана +7(7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395) 279-98-46

Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12

Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56

Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

Киргизия (996)312-96-26-47

Казахстан (772)734-952-31

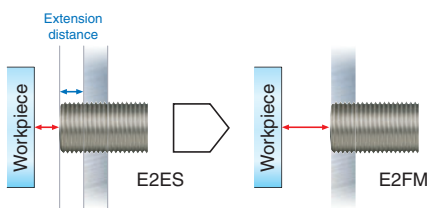
Таджикистан (992)427-82-92-69

Built-in Chip Immunity

Chip immunity performance has been provided to greatly reduce false signals caused by spatter accumulation and other causes, almost eliminating the needs for cleaning, e.g., with metal brushes.



Flush Mounting



Not influenced by surrounding installation environment.

Note: When mounted in steel.



Main Performance Comparison to Previous OMRON Products

Face thickness

	E2FM	E2ES
M8	0.4 mm	---
M12	0.8 mm	---
M18	0.8 mm	0.2 mm
M30	0.8 mm	0.2 mm

Sensing distance

	E2FM	E2ES
M8	1.5 mm	---
M12	2.0 mm	---
M18	5.0 mm	4.0 mm
M30	10.0 mm	8.0 mm

Response frequency

	E2FM	E2ES
M8	200 Hz	---
M12	100 Hz	---
M18	100 Hz	12 Hz
M30	50 Hz	8 Hz


Ambient operating temperature

E2FM	E2ES
-25 to 70°C	0 to 50°C

Ordering Information

Sensors [Refer to *Dimensions* on page 10.]


DC 2-Wire, Pre-wired Models

Size	Sensing distance		Output	Operation mode	Model
Shielded 	M8	1.5 mm	DC 2-Wire (polarity)	NO	E2FM-X1R5D1 2M *
	M12	2 mm			E2FM-X2D1 2M *
	M18	5 mm			E2FM-X5D1 2M *
	M30	10 mm			E2FM-X10D1 2M *


Note: Models with NC operation are also available. Ask your OMRON representative for details.

* Fluororesin-coated models are also available. The model numbers are E2FM-QX□D1. The cable material, however, is vinyl chloride and requires separate protection.

DC 2-wire Pre-wired Smartclick Connector Models (M12)


Size	Sensing distance		Output	Operation mode	Model
Shielded 	M8	1.5 mm	Polarity Pin allocations: 1-4	NO	E2FM-X1R5D1-M1TGJ 0.3M
			No polarity Pin allocations: 3-4		E2FM-X2D1-M1TGJ 0.3M
	M12	2 mm	Polarity Pin allocations: 1-4		E2FM-X2D1-M1TGJ-T 0.3M
			No polarity Pin allocations: 3-4		E2FM-X5D1-M1TGJ 0.3M
	M18	5 mm	Polarity Pin allocations: 1-4		E2FM-X5D1-M1TGJ-T 0.3M
			No polarity Pin allocations: 3-4		E2FM-X10D1-M1TGJ 0.3M
	M30	10 mm	Polarity Pin allocations: 1-4		E2FM-X10D1-M1TGJ-T 0.3M
			No polarity Pin allocations: 3-4		

DC 3-Wire, Pre-wired Models

Size	Sensing distance		Model	
			Output configuration: NPN NO	Output configuration: PNP NO
Shielded 	M8	1.5 mm	E2FM-X1R5C1 2M	E2FM-X1R5B1 2M
	M12	2 mm	E2FM-X2C1 2M	E2FM-X2B1 2M
	M18	5 mm	E2FM-X5C1 2M	E2FM-X5B1 2M
	M30	10 mm	E2FM-X10C1 2M	E2FM-X10B1 2M

Note: Models with NC operation are also available. Ask your OMRON representative for details.

DC 3-Wire, M12 Connector Models




Size	Sensing distance		Model	
			Output configuration: NPN NO	Output configuration: PNP NO
Shielded 	M8	1.5 mm	E2FM-X1R5C1-M1	E2FM-X1R5B1-M1 *
	M12	2 mm	E2FM-X2C1-M1	E2FM-X2B1-M1 *
	M18	5 mm	E2FM-X5C1-M1	E2FM-X5B1-M1 *
	M30	10 mm	E2FM-X10C1-M1	E2FM-X10B1-M1 *

* Fluororesin-coated models are also available. The model numbers are E2FM-QX□B1-M1. The cable material, however, is vinyl chloride and requires separate protection.

Accessories (Order Separately)

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

(Models for Connectors and 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
	2m	XS2F-D421-DC0-F	E2FM-X□C1-M1 E2FM-X□B1-M1
	5m	XS2F-D421-GC0-F	
	2m	XS2F-D422-DC0-F	
	5m	XS2F-D422-GC0-F	
	2m	XS5F-D421-D80-F	E2FM-X□D1-M1TGJ E2FM-X□D1-M1TGJ-T
	5m	XS5F-D421-G80-F	

Note1. Refer to your OMRON website for details on the XS2 and XS5.

Ratings and Specifications

DC 2-Wire (E2FM-X□D□)

Size	M8	M12	M18	M30	M12	M18	M30	
	Shielded							
Item	Model	E2FM-X1R5D1-□	E2FM-X2D1-□	E2FM-X5D1-□	E2FM-X10D1-□	E2FM-X2D1-M1T1GJ-T	E2FM-X5D1-M1T1GJ-T	E2FM-X10D1-M1T1GJ-T
Sensing distance	1.5 mm±10%	2 mm±10%	5 mm±10%	10 mm±10%	2 mm±10%	5 mm±10%	10 mm±10%	
Set distance	0 to 1.05 mm	0 to 1.4 mm	0 to 3.5 mm	0 to 7 mm	0 to 1.4 mm	0 to 3.5 mm	0 to 7 mm	
Differential travel	15% max. of sensing distance							
Sensing object	Ferrous metal (The sensing distance decreases with non-ferrous metal. Refer to <i>Engineering Data</i> on page 7.)							
Standard sensing object	Iron, 8 × 8 × 1 mm	Iron, 12 × 12 × 1 mm	Iron, 30 × 30 × 1 mm	Iron, 54 × 54 × 1 mm	Iron, 12 × 12 × 1 mm	Iron, 30 × 30 × 1 mm	Iron, 54 × 54 × 1 mm	
Response frequency *1	200 Hz	100 Hz	100 Hz	50 Hz	100 Hz	100 Hz	50 Hz	
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.							
Output configuration	With polarity				No polarity			
Control output	Switching capacity	3 to 100 mA						
	Residual voltage	3 V max. (Load current: 100 mA max., Cable length: 2 m)			5 V max. (Load current: 100 mA max., Cable length: 2 m)			
Indicators	Operation indicator (red LED), Setting/Operation indicator (green LED)							
Operation mode (with sensing object approaching)	NO *2							
Protection circuits	Surge suppressor, Load short-circuit protection							
Ambient temperature range	Operating/Storage: -25 to 70°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 -25 to 70°C.							
Voltage influence	±1% max. of sensing distance at rated voltage in the rated voltage ±15% 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							
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: 500 m/s ² 10 times each in X, Y, and Z directions	Destruction: 1,000 m/s ² 10 times each in X, Y, and Z directions						
Degree of protection	IEC 60529 IP67							
Connection method	Unmarked: Pre-wired Models (Standard cable length: 2 m) Models ending with -M1GJ-□: Pre-wired Connector Models (Standard cable length: 300 mm)							

Item	Size	M8	M12	M18	M30	M12	M18	M30
	Shielded	Shielded						
	Model	E2FM-X1R5D1-□	E2FM-X2D1-□	E2FM-X5D1-□	E2FM-X10D1-□	E2FM-X2D1-M1T1GJ-T	E2FM-X5D1-M1T1GJ-T	E2FM-X10D1-M1T1GJ-T
Weight (packed state)	Pre-wired Models (2 m)	Approx. 105 g	Approx. 190 g	Approx. 215 g	Approx. 295 g	---	---	---
	Pre-wired Connector Models	Approx. 65 g	Approx. 85 g	Approx. 110 g	Approx. 190 g	Approx. 85 g	Approx. 110 g	Approx. 190 g
Materials	Case	Stainless steel (SUS303)						
	Sensing surface	Stainless steel (SUS303)						
	(thickness)	(0.4 mm)	(0.8 mm)			(0.8 mm)		
	Clamping nuts	Stainless steel (SUS303)						
	Cable	PVC (flame retardant)						
	Toothed washer	Zinc-plated iron						
Accessories	Instruction manual							

*1. The response frequency of the DC switching section 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. NC (normally closed) models are also available. Contact your OMRON representative.

DC 3-Wire (E2FM-X□C□, E2FM-X□B□)

Item	Size	M8	M12	M18	M30
	Shielded	Shielded			
	Model	E2FM-X1R5□	E2FM-X2□	E2FM-X5□	E2FM-X10□
Sensing distance		1.5 mm±10%	2 mm±10%	5 mm±10%	10 mm±10%
Set distance		0 to 1.05 mm	0 to 1.4 mm	0 to 3.5 mm	0 to 7 mm
Differential travel		15% max. of sensing distance			
Sensing object		Ferrous metal (The sensing distance decreases with non-ferrous metal. Refer to <i>Engineering Data</i> on page 7.)			
Standard sensing object		Iron, 8 × 8 × 1 mm	Iron, 12 × 12 × 1 mm	Iron, 30 × 30 × 1 mm	Iron, 54 × 54 × 1 mm
Response frequency *1		200 Hz	100 Hz	100 Hz	50 Hz
Power supply voltage (operating voltage range)		12 to 24 VDC (10 to 30 VDC), ripple (p-p): 10% max.			
Current consumption		10 mA max.			
Output configuration		PNP open collector output			
Control output	Switching capacity	200 mA max.			
	Residual voltage	2 V max. (Load current: 200 mA, Cable length: 2 m)			
Indicators		Operation indicator (yellow LED)			
Operation mode (with sensing object approaching)		C1 Models: NPN open collector, NO (normally open) *2 B1 Models: PNP open collector, NO (normally open) *2			
Protection circuits		Reversed power supply polarity protection, Surge suppressor, Load short-circuit protection, and Reversed output polarity protection (except the E2FM-X1R5B1-M1)			
Ambient temperature range		Operating/Storage: -25 to 70°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 -25 to 70°C.			
Voltage influence		±1% max. of sensing distance in the rated voltage ±15% range (using the sensing distance at the rated voltage as standard)			
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			
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: 500 m/s ² 10 times each in X, Y, and Z directions	Destruction: 1,000 m/s ² 10 times each in X, Y, and Z directions		
Degree of protection		IEC 60529 IP67			
Connection method		Unmarked: Pre-wired Models (Standard cable length: 2 m) Models ending with -M1: Connector Models			
Weight (packed state)	Pre-wired Models (2 m)	---	Approx. 170 g	Approx. 190 g	Approx. 275 g
	Pre-wired Connector Models	Approx. 45 g	Approx. 55 g	Approx. 75 g	Approx. 160 g
Materials	Case	Stainless steel (SUS303)			
	Sensing surface	Stainless steel (SUS303)			
	(thickness)	(0.4 mm)	(0.8 mm)		
	Clamping nuts	Stainless steel (SUS303)			
	Toothed washer	Zinc-plated iron			
Accessories		Instruction manual			

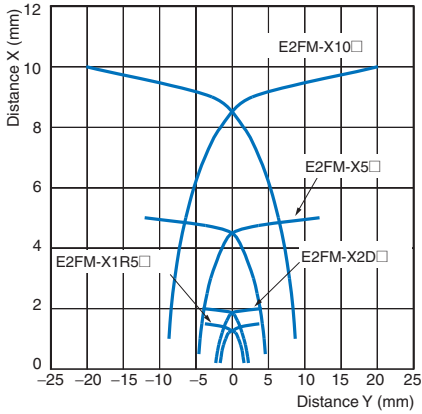
*1. The response frequency of the DC switching section is an average value. Measurement conditions are as follows: standard sensing object, a distance of twice the standard sensing object, and a set distance of half the sensing distance.

*2. NC (normally closed) models are also available. Contact your OMRON representative.

Engineering Data (Reference Value)

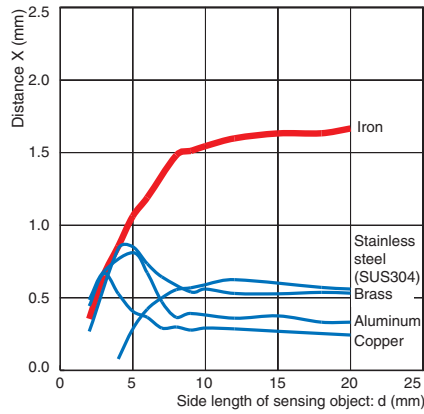
Sensing Area

E2FM-X□

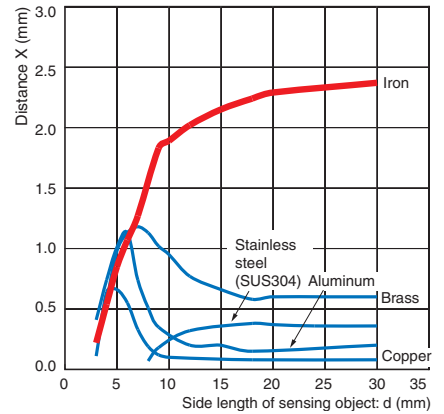


Influence of Sensing Object Size and Material

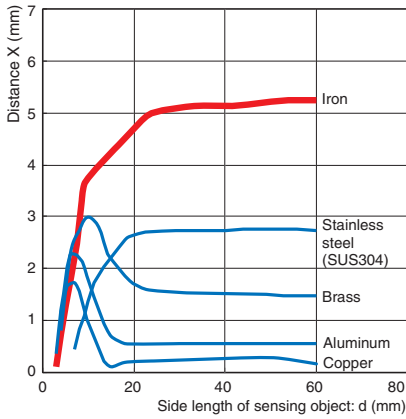
E2FM-X1R5□



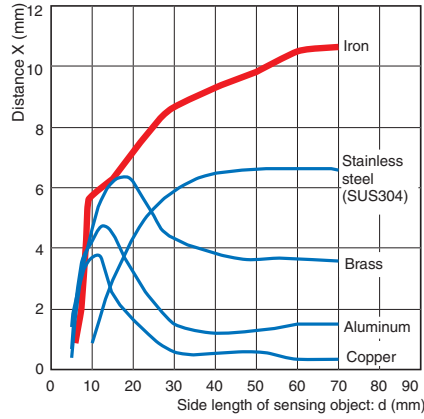
E2FM-X2□



E2FM-X5□

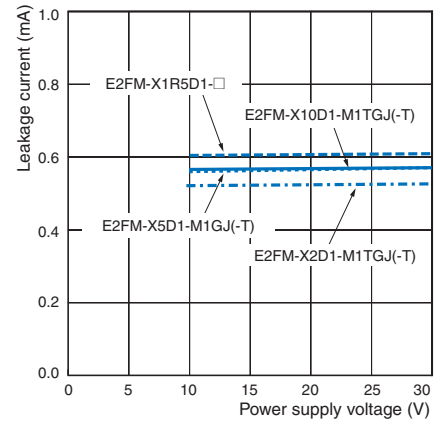


E2FM-X10□



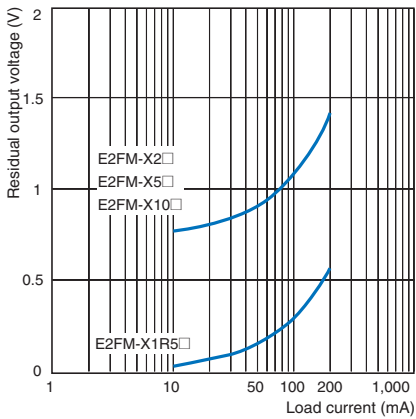
Leakage Current

E2FM-X□D1-M1TGJ (-T)

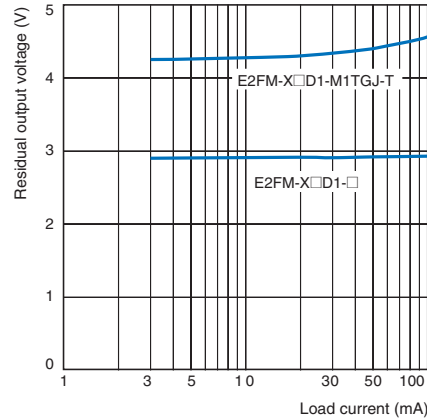


Residual Output Voltage

E2FM-X□C□/B□



E2FM-X□D1-M1TGJ (-T)



I/O Circuit Diagrams

DC 2-Wire Models

Operation mode	Model	Timing chart	Output circuit
NO	E2FM-X□D1-□		<p>Note: The load can be connected to either the +V or 0 V side.</p>
	E2FM-X□D1-M1TGJ-T		<p>Note1. The load can be connected to either the +V or 0 V side. Note 2. The E2FM-X□□1-M1TGJ-T has no polarity. There is no need to be concerned about the polarity of pins 3 and 4.</p>

DC 3-Wire Models

Operation mode	Output configuration	Model	Timing chart	Output circuit
NO	NPN open-collector model	E2FM-X1R5C□ E2FM-X2C□ E2FM-X5C□ E2FM-X10C□		<p>* There is no reversed output polarity protection diode.</p>
		PNP open-collector model	E2FM-X1R5B□ E2FM-X2B□ E2FM-X5B□ E2FM-X10B□	

Safety Precautions

⚠ WARNING

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



Never use this product with an AC power supply. Otherwise, explosion may result.



Precautions for Safe Use

The following precautions must be observed to ensure safe operation.

- Do not use the Sensor in an environment where inflammable or explosive gas is present.
- Do not attempt to disassemble, repair, or modify any Sensors.
- Power Supply Voltage
Do not use a voltage that exceeds the rated operating voltage range. Applying a voltage that is higher than the operating voltage range may result in explosion or fire.
- Incorrect Wiring
Be sure that the power supply polarity and other wiring is correct. Incorrect wiring may cause explosion or fire.
- Connection without a Load
If the power supply is connected directly without a load, the internal elements may explode or burn. Be sure to insert a load when connecting the power supply.

Precautions for Correct Use

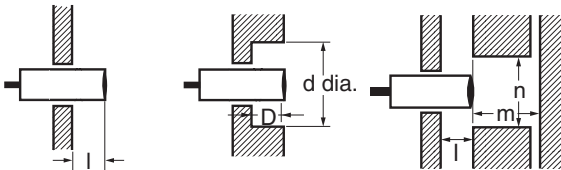
Do not use the Sensor under ambient conditions that exceed the ratings.

- Do not use the Sensor in the following locations.
 - Outdoor locations directly subject to sunlight, rain, snow, or water droplets
 - Locations subject to atmospheres with chemical vapors, in particular solvents and acids
 - Locations subject to corrosive gas
- The Sensor may malfunction if used near ultrasonic cleaning equipment, high-frequency equipment, transceivers, cellular phones, inverters, or other devices that generate a high-frequency electric field. Refer to the *Technical Guide Photoelectric Sensors* for typical measures.
- Laying the Sensor wiring in the same conduit or duct as high-voltage wires or power lines may result in incorrect operation and damage due to induction. Wire the Sensor using a separate conduit or independent conduit.
- Cleaning
Never use thinner or other solvents. Otherwise, the Sensor surface may be dissolved.

● Design

Influence of Surrounding Metal

When the Proximity Sensor is embedded in metal, make sure that the clearances given in the following table are maintained. The values depend on the type of nuts used for mounting. Be sure to use the supplied nuts (SUS303).



(Unit: mm)

Model	Item Embedding material	l	d	D	m	n
E2FM-X1R5□	Iron	0	8	0	4.5	30
	Aluminum	10	50	10	4.5	50
E2FM-X2□	Iron	0	12	0	8	40
	Aluminum	16	70	16	8	70
E2FM-X5□	Iron	0	18	0	20	60
	Aluminum	16	80	16	20	80
E2FM-X10□	Iron	0	30	0	40	100
	Aluminum	24	120	24	40	120

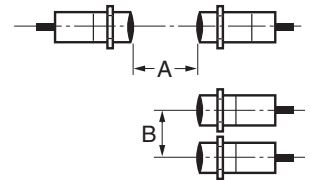
Note: The influence from other non-magnetic surrounding metals is nearly the same as that from aluminum.

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.

(Unit: mm)

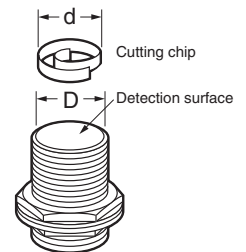
Model	Item	A	B
E2FM-X1R5□		35	30
E2FM-X2□		40	35
E2FM-X5□		65	60
E2FM-X10□		110	100



Chips from Cutting Aluminum

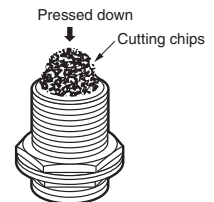
Normally, chips from cutting aluminum or cast iron will not cause a detection signal to be output even if it adheres to or accumulates on the detection surface. In the following cases, however, a detection signal may be output. Remove the cutting chips in these cases.

- If $d \geq \frac{2}{3} D$ at the center of the detection surface where d is the cutting chip size and D is the detection surface size



Model	Dimension (mm)	D
E2FM-X1R5□		6
E2FM-X2□		10
E2FM-X5□		16
E2FM-X10□		28

- If the cutting chips are pressed down



● Mounting

Do not tighten the nut with excessive force. A washer must be used with the nut. Do not use tightening force that exceeds the values in the following table.

Model	Torque
E2FM-X1R5□	9 N·m
E2FM-X2□	30 N·m
E2FM-X5□	70 N·m
E2FM-X10□	180 N·m



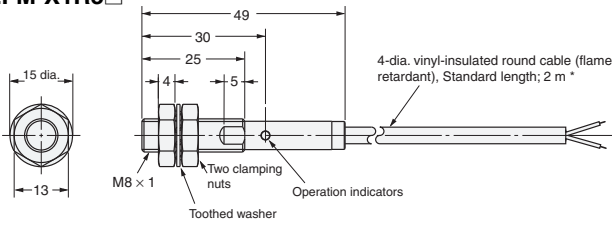
Dimensions

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

Sensors

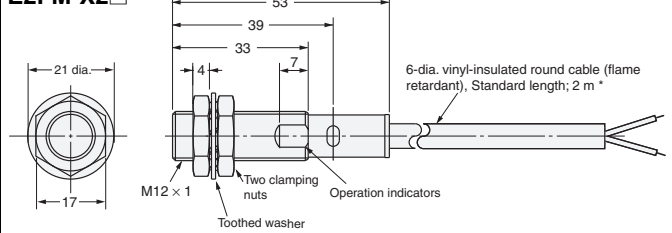
Pre-wired Models

E2FM-X1R5



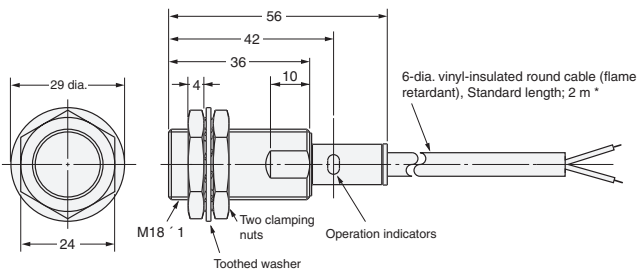
* 4-dia. vinyl-insulated round cable with 2 conductors
(Conductor cross section: 0.2 mm², Insulator diameter: 1.4 mm)
4-dia. vinyl-insulated round cable with 3 conductors
(Conductor cross section: 0.2 mm², Insulator diameter: 1.2 mm)

E2FM-X2



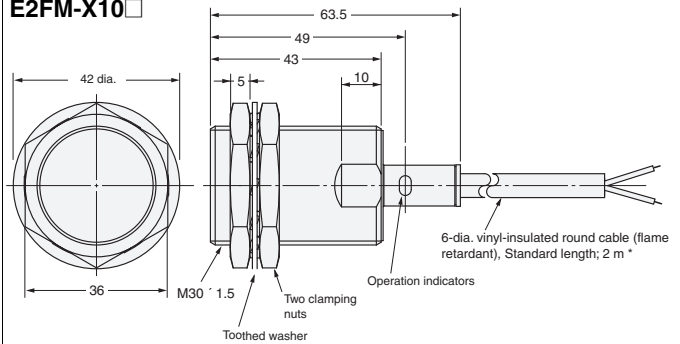
* 6-dia. vinyl-insulated round cable with 2 conductors
(Conductor cross section: 0.5 mm², Insulator diameter: 1.75 mm)
6-dia. vinyl-insulated round cable with 3 conductors
(Conductor cross section: 0.5 mm², Insulator diameter: 1.75 mm)

E2FM-X5



* 6-dia. vinyl-insulated round cable with 2 conductors
(Conductor cross section: 0.5 mm², Insulator diameter: 1.75 mm)
6-dia. vinyl-insulated round cable with 3 conductors
(Conductor cross section: 0.5 mm², Insulator diameter: 1.75 mm)

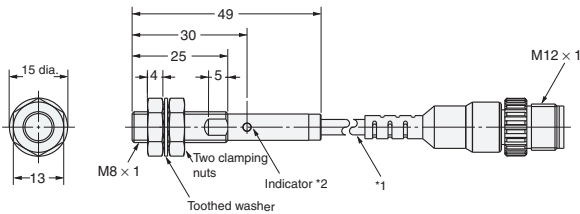
E2FM-X10



* 6-dia. vinyl-insulated round cable with 2 conductors
(Conductor cross section: 0.5 mm², Insulator diameter: 1.75 mm)
6-dia. vinyl-insulated round cable with 3 conductors
(Conductor cross section: 0.5 mm², Insulator diameter: 1.75 mm)

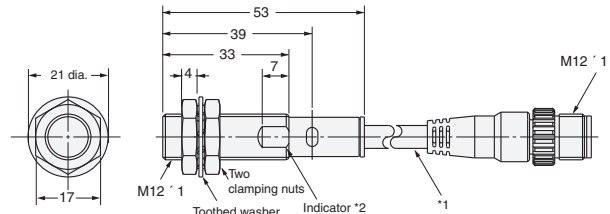
Pre-wired Connector Models

E2FM-X1R5D-M1TGJ



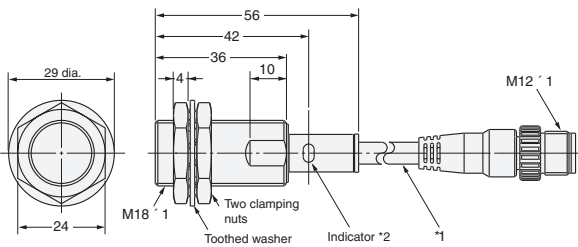
*1. 4-dia. vinyl-insulated round cable (flame retardant), Standard length; 300 mm
*2. Operation indicator (red/green)
Setting indicator (green)

E2FM-X2D-M1TGJ



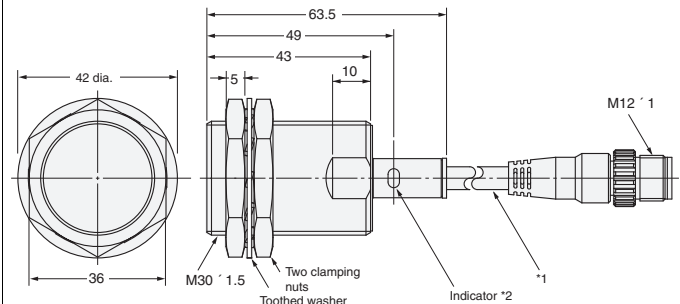
*1. 6-dia. vinyl-insulated round cable (flame retardant), Standard length; 300 mm
*2. Operation indicator (red/green)
Setting indicator (green)

E2FM-X5D-M1TGJ



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

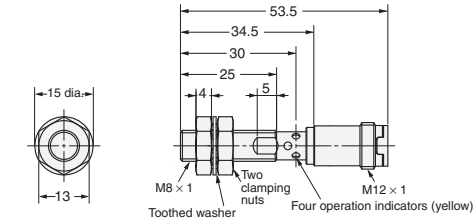
E2FM-X10D-M1TGJ



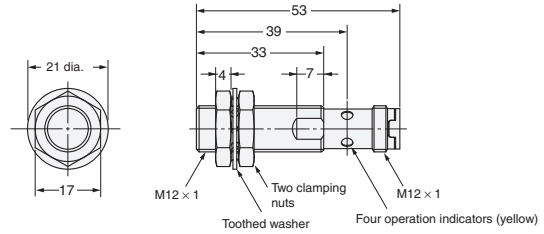
*1. 6-dia. vinyl-insulated round cable (flame retardant), Standard length; 300 mm
*2. Operation indicator (red/green)
Setting indicator (green)

M12 Connector Models

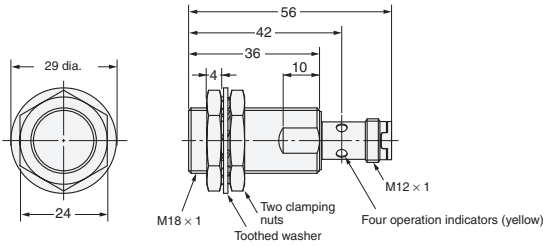
E2FM-X1R5□□-M1



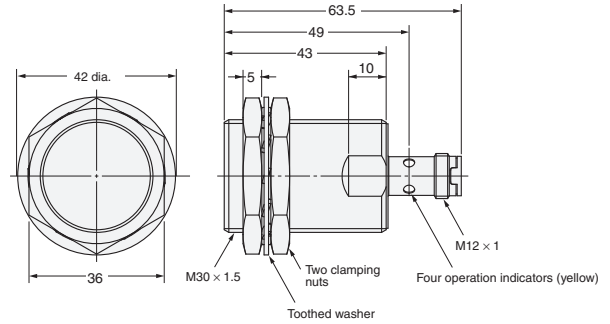
E2FM-X2□□-M1



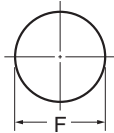
E2FM-X5□□-M1



E2FM-X10□□-M1



Mounting Hole Dimensions



Dimension	M8	M12	M18	M30
F (mm)	8.5 ^{+0.5} ₀ dia.	12.5 ^{+0.5} ₀ dia.	18.5 ^{+0.5} ₀ dia.	30.5 ^{+0.5} ₀ dia.

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