E2FM

CSM_E2FM_DS_E_4_8

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.

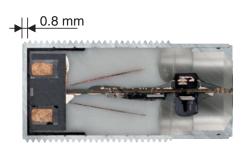
Note: Models with a fluororesin coating also use vinyl chloride for the cable material and require separate protection.

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.



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

The E2ES with a top wall thicknes of 0.2 mm was penetrated after 10.000 impacts.

The E2FM was after 250,000 impacts (depth: 0.26 mm)

E2FM

More than 20 times the durability of the E2ES!

Chemical and Detergent Proof

The one-piece completely stainlesssteel 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

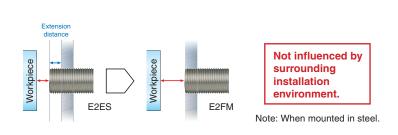
Note: Cannot be used for explosion-proof applications.

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





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
М8	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

The chemical resistance has been certified by Ecolab Europe





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			E2FM-X1R5D1 2M *
	M12	2 mm	DC 2-Wire	NO	E2FM-X2D1 2M *
-	M18	5 mm	(polarity)	NO	E2FM-X5D1 2M *
<i>1773</i>	M30	10 mm			E2FM-X10D1 2M *

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

Size		Sensing distance	Output	Operation mode	Model	
	M8	1.5 mm	Polarity Pin allocations: 1-4		E2FM-X1R5D1-M1TGJ 0.3M	
	M12	0.77	Polarity Pin allocations: 1-4		E2FM-X2D1-M1TGJ 0.3M	
Shielded	IVITZ	2 mm	No polarity Pin allocations: 3-4		E2FM-X2D1-M1TGJ-T 0.3M	
	M40	M18	E 10000	Polarity Pin allocations: 1-4	NO	E2FM-X5D1-M1TGJ 0.3M
	IVITO	5 mm	No polarity Pin allocations: 3-4		E2FM-X5D1-M1TGJ-T 0.3M	
	M30	40	Polarity Pin allocations: 1-4		E2FM-X10D1-M1TGJ 0.3M	
	IVISU	10 mm	No polarity Pin allocations: 3-4		E2FM-X10D1-M1TGJ-T 0.3M	

DC 3-Wire, Pre-wired Models

Size	Size Sensing distance		Model		
Size		Sensing distance	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	
<i>''''</i>	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		Sonsing distance	Model		
Size	Size Sensing distance		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 *	
VIII	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

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.

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
Straight	2m	XS2F-D421-DC0-F	
a distribution of the second	5m	XS2F-D421-GC0-F	E2FM-X□C1-M1
L-shape	2m	XS2F-D422-DC0-F	E2FM-X□B1-M1
	5m	XS2F-D422-GC0-F	
Smartclick Connector Relay Models (M12)	2m	XS5F-D421-D80-F	E2FM-X□D1-M1TGJ
Models (W12)	5m	XS5F-D421-G80-F	E2FM-X□D1-M1TGJ-T

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

Ratings and Specifications

DC 2-Wire (E2FM-X\(\time\)D\(\times\)

	Size	M8	M12	M18	M30	M12	M18	M30	
	Shielded				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				
Differentia	al travel	15% max. of se	nsing distance						
Sensing of	object	Ferrous metal (The sensing dista	ance decreases w	vith non-ferrous n	netal. Refer to <i>Er</i>	ngineering Data o	n page 7.)	
Standard	sensing object	Iron, $8 \times 8 \times 1 \text{ mm}$	Iron, 12 × 12 × 1 mm	Iron, $30 \times 30 \times 1 \text{ mm}$	Iron, 54 × 54 × 1 mm	Iron, $12 \times 12 \times 1 \text{ mm}$	Iron, $30 \times 30 \times 1 \text{ mm}$	Iron, 54 × 54 × 1 mm	
Response	e frequency *1	200 Hz	100 Hz	100 Hz	50 Hz	100 Hz	100 Hz	50 Hz	
Power supply (operating v	oly voltage voltage range)	12 to 24 VDC (1	0 to 30 VDC), rip	pple (p-p): 10% m	ax.				
Leakage of	current	0.8 mA max.				,			
Output co	onfiguration	With polarity				No polarity			
Control	Switching capacity 3 to 100 mA								
output	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	5	Operation indica	ator (red LED), So	etting/Operation i	ndicator (green L	ED)			
Operation (with sens	sing object	NO *2							
Protection	n circuits	Surge suppress	or, Load short-cir	rcuit protection					
Ambient ten	nperature range	Operating/Stora	ge: -25 to 70°C	(with no icing or o	condensation)				
Ambient h	umidity range	Operating/Stora	ge: 35% to 95%	(with no condens	ation)				
Temperat	ure influence	±20% max. of s	ensing distance a	at 23°C in the ten	nperature range o	of –25 to 70°C.			
Voltage in	nfluence	±1% max. of se	nsing distance at	rated voltage in	the rated voltage	±15% range			
Insulation	resistance	50 M Ω min. (at	500 VDC) between	en current-carryir	ng parts and case	•			
Dielectric	strength	1,000 VAC, 50/6	60 Hz for 1 minut	e between currer	nt-carrying parts a	and case			
Vibration	ration resistance Destruction: 10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions								
Shock res	sistance	Destruction: 500 m/s ² 10 times each in X, Y, and Z directions	Destruction: 1,0	ction: 1,000 m/s ² 10 times each in X, Y, and Z directions					
Degree of	protection	IEC 60529 IP67	•						
Connection	on method			tandard cable len re-wired Connect		lard cable length:	300 mm)		

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

^{*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\(\time\)C\(\time\), E2FM-X\(\time\)B\(\time\)

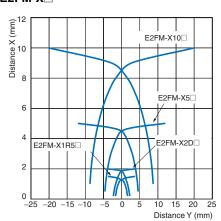
E2FM-X1R5 1.5 mm±10% 0 to 1.05 mm 15% max. of sensing dista	E2FM-X2 2 mm±10%	Shielded E2FM-X5	E2FM-X10□		
1.5 mm±10% 0 to 1.05 mm		E2FM-X5□	E2EM_V10□		
0 to 1.05 mm	2 mm±10%		EZFIVI-X I U		
		5 mm±10%	10 mm±10%		
15% max. of sensing dista	0 to 1.4 mm	0 to 3.5 mm	0 to 7 mm		
	ince				
Ferrous metal (The sensing	g distance decreases with	non-ferrous metal. Refer to	Engineering Data on page 7.)		
Iron, $8 \times 8 \times 1$ mm	Iron, 12 × 12 × 1 mm	Iron, $30 \times 30 \times 1$ mm	Iron, 54 × 54 × 1 mm		
200 Hz	100 Hz	100 Hz	50 Hz		
12 to 24 VDC (10 to 30 VE	DC), ripple (p-p): 10% max.				
10 mA max.					
PNP open collector output					
200 mA max.					
2 V max. (Load current: 20					
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					
Reversed power supply polarity protection, Surge suppressor, Load short-circuit protection, and Reversed output polarity protection (except the E2FM-X1R5B1-M1)					
Operating/Storage: –25 to 70°C (with no icing or condensation)					
Operating/Storage: 35% to 95% (with no condensation)					
±20% max. of sensing distance at 23°C in the temperature range of -25 to 70°C.					
standard)			g distance at the rated voltage a		
50 MΩ min. (at 500 VDC) between current-carrying parts and case					
1,000 VAC, 50/60 Hz for 1 minute between current-carrying parts and case					
Destruction: 10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions					
	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				
IEC 60529 IP67					
Unmarked: Pre-wired Mod Models ending with -M1: C	lels (Standard cable length Connector Models	: 2 m)			
	Approx. 170 g	Approx. 190 g	Approx. 275 g		
Approx. 45 g	Approx. 55 g	Approx. 75 g	Approx. 160 g		
Stainless steel (SUS303)					
Stainless steel (SUS303)					
(0.4 mm)	(0.8 mm)				
Stainless steel (SUS303)					
Zinc-plated iron					
Sensing surface (thickness) Clamping nuts Stainless steel (SUS303) (0.4 mm) (0.8 mm) Stainless steel (SUS303)					

^{*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)

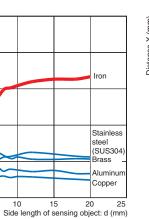
Sensing Area

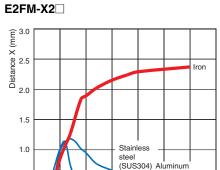
E2FM-X□



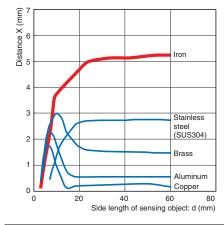
Influence of Sensing Object Size and Material

E2FM-X1R5□ Distance > Iron 1.5





E2FM-X5

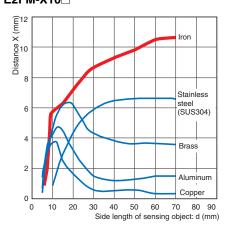


E2FM-X10

1.0

0.5

0.0

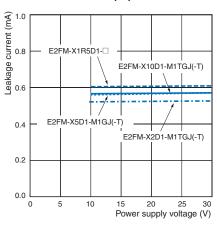


Leakage Current

0.5

0.0

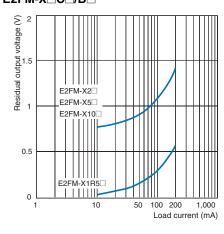
E2FM-X□D1-M1TGJ (-T)



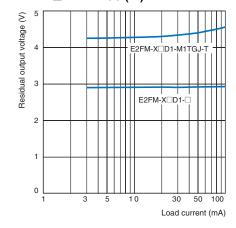
Side length of sensing object: d (mm)

Residual Output Voltage

E2FM-XCC/B

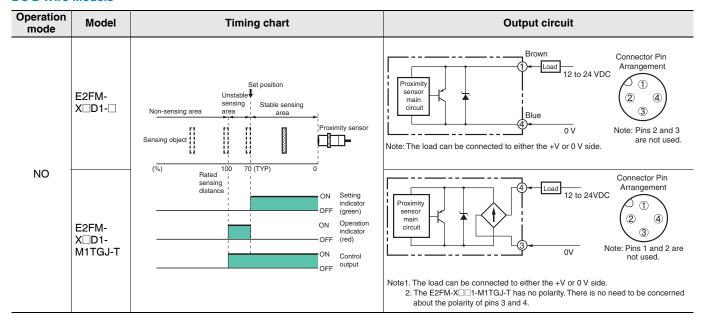


E2FM-X□D1-M1TGJ (-T)

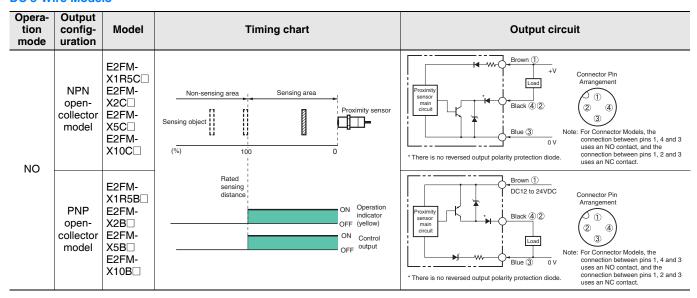


I/O Circuit Diagrams

DC 2-Wire Models



DC 3-Wire Models



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.
- 2. Do not attempt to disassemble, repair, or modify any Sensors.
- 3. 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.

4. Incorrect Wiring

Be sure that the power supply polarity and other wiring is correct. Incorrect wiring may cause explosion or fire.

5. 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.

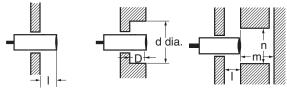
- 1. Do not use the Sensor in the following locations.
 - Outdoor locations directly subject to sunlight, rain, snow, or water droplets
 - (2) Locations subject to atmospheres with chemical vapors, in particular solvents and acids
 - (3) Locations subject to corrosive gas
- The Sensor may malfunction 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 highvoltage wires or power lines may result in incorrect operation and damage due to induction. Wire the Sensor using a separate conduit or independent conduit.
- 4. 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)

	Item					
Model	Embedding material	-	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

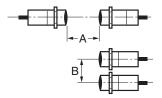
Note: The influence from other non-magnetic surrounding metals is nearly the same as that from aluminum.

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	Α	В
E2FM-X1R5	35	30
E2FM-X2	40	35
E2FM-X5	65	60
E2FM-X10□	110	100

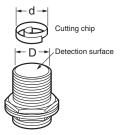


Chips from Cutting Aluminum

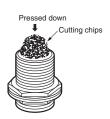
Normally, chips from cutting aluminum or cast iron will not cause a detection signal to be output even if it adheres to or accumulates on the detection surface. In the following cases, however, a detection signal may be output. Remove the cutting chips in these cases.

 If d ≥ 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



2. If the cutting chips are pressed down



Mounting

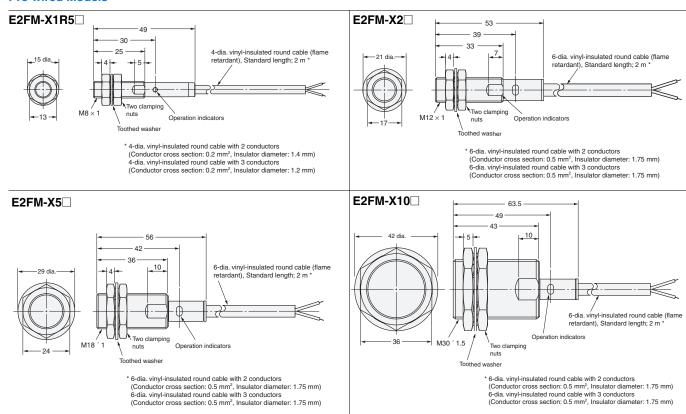
Do not tighten the nut with excessive force. A washer must be used with the nut. Do not use tightening force that exceeds the values in the following table.

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



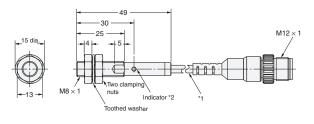
Sensors

Pre-wired Models



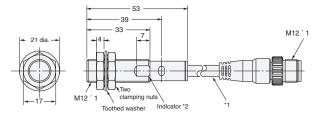
Pre-wired Connector Models





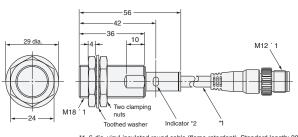
- *1. 4-dia. vinyl-insulated round cable (flame retardant), Standard length; 300 mm
 *2. Operation indicator (red/green)
 Setting indicator (green)

E2FM-X2D -M1TGJ-



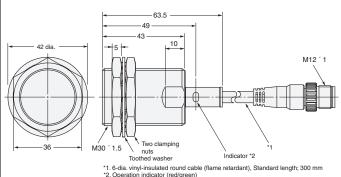
*1. 6-dia. vinyl-insulated round cable (flame retardant), Standard length; 300 mm
*2. Operation indicator (red/green)
Setting indicator (green)

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-

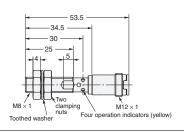


*1.6-dia. vinyl-insulated round cable (flame retardant), Standard length; 300 mm
*2. Operation indicator (red/green)
Setting indicator (green)

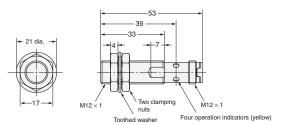
M12 Connector Models

E2FM-X1R5 ...-M1



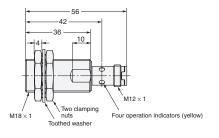


E2FM-X2□□-M1

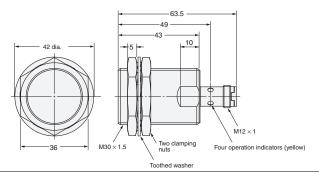


E2FM-X5 ...-M1





E2FM-X10 ...-M1



Mounting Hole Dimensions



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

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2M E2FM-X2C1 2M E2FM-X2C1-M1 E2FM-X5C1 2M E2FM-X5C1-M1 E2FM-QX10D1 2M E2FM-QX10D1-M1GJ

0.3M E2FM-QX10D1-M1GJ-T 0.3M E2FM-QX1R5B1-M1 E2FM-QX1R5D1 2M E2FM-QX1R5D1-M1GJ 0.3M E2FM-QX2D1-M1GJ 0.3M E2FM-QX2D1-M1GJ-T 0.3M E2FM-QX5D1 2M E2FM-X5D1 5M E2FM-X5D1 2M E2FM-X5D1 2M E2FM-X5D1 2M E2FM-X5D1 2M E2FM-X5D1 2M E2FM-X5D1 5M