

The OMRON logo is displayed in a bold, blue, sans-serif font. The letters are thick and rounded, with the 'O' being a simple circle. The entire logo is set against a light yellow rectangular background.

Automatización Eléctrica
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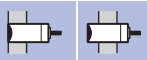
Inductive sensor in cylindrical full metal housing (case + sensing face)

The high durability stainless steel sensing face provides more than 20 times longer protection against mechanical damage than conventional sensors. The high mineral oil and coolant resistance and the immunity against small metal chips on the surface make this sensor ideal for metal cutting or drilling applications.

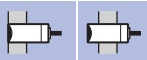
- Full body stainless steel housing for highest mechanical protection
- Low frequency modulation for metal chip immunity
- Flame retardant cable for high protection against welding spatter damage (pigtail models)

Ordering information

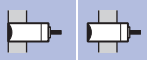
DC 2-wire (with M12 pigtail connector)

Size			Sensing distance	Order code ^{*1} (for pre-wired types with 30 cm PVC cable and M12 plug)	
M8	■	—	1.5 mm	E2FM-X1R5D1-M1TGJ	
M12			2 mm	E2FM-X2D1-M1TGJ	
M18			5 mm	E2FM-X5D1-M1TGJ	
M30			10 mm	E2FM-X10D1-M1TGJ	

DC 3-wire, M12 Connector types

Size			Sensing distance	Order code ^{*1} (for M12 connector types)	
				PNP	NPN
M8	■	—	1.5 mm	E2FM-X1R5B1-M1	E2FM-X1R5C1-M1
M12			2 mm	E2FM-X2B1-M1	E2FM-X2C1-M1
M18			5 mm	E2FM-X5B1-M1	E2FM-X5C1-M1
M30			10 mm	E2FM-X10B1-M1	E2FM-X10C1-M1

DC 3-wire, pre-wired types

Size			Sensing distance	Order code ^{*1} (for pre-wired types with 2 m PVC cable)	
				PNP	NPN
M8	■	—	1.5 mm	E2FM-X1R5B1 2M	E2FM-X1R5C1 2M
M12			2 mm	E2FM-X2B1 2M	E2FM-X2C1 2M
M18			5 mm	E2FM-X5B1 2M	E2FM-X5C1 2M
M30			10 mm	E2FM-X10B1 2M	E2FM-X10C1 2M

^{*1} Output configuration normally open (NO)

Specifications

Item	M8 E2FM-X1R5	M12 E2FM-X2	M18 E2FM-X5	M30 E2FM-X10
Sensing distance	1.5 mm±10%	2 mm±10%	5 mm±10%	10 mm±10%
Response frequency	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.			
Protective circuits	E2FM-_D1: Surge suppressor, output short-circuit protection E2FM-_B1/C1: Output reverse polarity protection (not E2FM-X1R5B1-M1), power supply reverse polarity protection, surge suppressor, short-circuit protection			
Ambient temperature	Operating	-25°C to +70°C (with no icing or condensation)		
	Storage			
Degree of protection	IEC60529 IP67, IP69k after DIN 40050 part 9			
Material	Case	Stainless steel (SUS303)		
	Sensing surface	Stainless steel (SUS303)		
	Cable	PVC (flame retardant)		



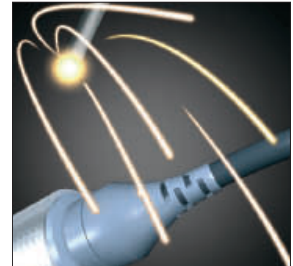
E2FM extra strong sensing face



Conventional metal face product



No interference by small metal chips on sensing surface



Cable resistant to welding spatter



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