E2K-F/E2K-L

厚度10mm的節省空間安裝型

- ■放大器內藏式,檢測距離10mm,厚度10mm,節省空間 效率出色的扁平型設計
- ■除金屬外,亦可檢測水、油、玻璃、塑膠等非金屬
- ■可直接安裝至金屬表面上

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圓柱型

方型

放大器分離/ 轉接型

(標有◎符號的機型為標準庫存機型)

 ϵ

TZIII	檢測距離	輸出規格	型號/動作模式		
形狀			NO	NC C	
扁平型 非隔離	1 Omm	直流3線式NPN	◎E2K-F10MC1型	E2K-F10MC2型	
	4~10mm		E2K-F10MC1-A型	E2K-F10MC2-A型	
E2K-L型				M.M.100.	
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對應廣泛多樣的管道直徑。 採用靜電容量方式,不受管道、液體顏色影響

- ■旁通管安裝型
- ■對應8~11mm、12~26mm等廣泛多樣的管道直徑
- ■採放大器內藏式,可節省空間 WWW.100Y.COM.



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種類

檢測方式	適用管徑	輸出規格/動作	模式	型號	
松雨内目士士	φ8 ~ 11mm	NPN 集極開路輸	NO -	◎E2K-L13MC1 型	
靜電容量方式	φ 12 ~ 26mm	出	NO	◎E2K-L26MC1 型	

感測技術

近接開關

指南

靜電容量型

其他

相關設備

參考

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Flat type **E2K-F**

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Low-profiled Capacitive Proximity Sensor providing Flexible Installation



Ordering Information

Shape	Sensing distance	Output specifications	Operating status	Model
Flat type Unshielded	10 mm	DC 3-wire NPN	NO * CC	E2K-F10MC1

^{*} NC models available (E2K-F10MC2)

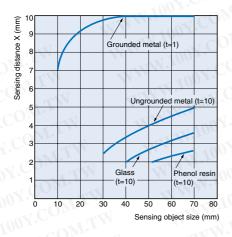
Rating/Performance

Item	-11XI.100 - CO	E2K-F10MC1		
Sensing distance		10 mm ±10%		
Setting dist	ance	0 to 7.5 mm		
Differential	distance	15% max. sensing distance		
Sensing ob	ject	Conductors and dielectrics		
Standard se	ensing object	with grounded metal: 50 x 50 x 1 mm		
Response f		100 Hz		
Rated supply voltage (operating voltage)		12 to 24 VDC (10 to 30 VDC), ripple (p-p): 10% max.		
Current consumption		10 mA max. (24VDC)		
Control	Switching capacity	NPN open collector 100 mA max. (under 30 VDC)		
output	Residual voltage	1.5 V max. (under load current of 100 mA with cable length of 2 m)		
Indicator lamp		Detection indicator (red LED)		
Operating status (with sensing object approaching)		NO COMPANY WINNINGOV CONTENT WINNINGOV		
Protective circuits		Reverse connection protection, surge absorber		
Ambient ter		Operating/Storage: -10°C to 55°C (with no icing or condensation)		
Ambient humidity		Operating/Storage: 35% to 95%RH		
Temperatui	re influence	±15% max. of sensing distance at 23°C within the temperature range of -10°C and 55°C		
Voltage infl	uence	±2.5% max. of sensing distance within a range of ±10% of rated supply voltage		
Insulation re	esistance	50 M Ω min. (at 500 VDC) between energized parts and case		
Dielectric st	trength	500 VAC 50/60 Hz for 1 min between energized part and case		
Vibration re	sistance	Malfunction: 10 to 55 Hz, 1.5 mm double amplitude for 2 hours each in X, Y, and Z directions		
Shock resis	stance	Destruction: 500 m/s² for 3 times each in X, Y, and Z directions		
Protective s	structure	IEC 60529 IP66		
Connection method		Pre-wired models (standard length: 2 m)		
Weight (Packed state)		Approx. 35 g		
Material	Case Sensing surface	Heat-resistant ABS resin		
Accessories		Instruction manual		

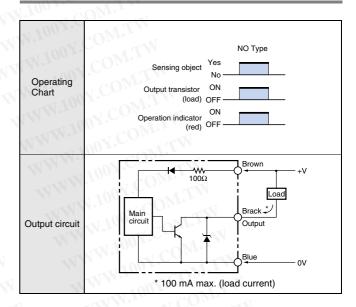
E-80 Proximity Sensors

Characteristic data (typical)

Sensing Distance vs. Sensing Object



Output Circuit Diagram



Precautions

Correct Use

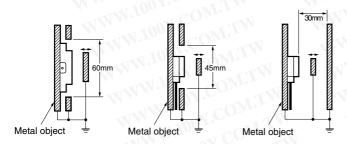
Design

Sensing Object Material

E2K-F can detect almost any type of object. The sensing distance of E2K-F, however, will vary with the electrical characteristics of the object, such as the conductance and inductance of the object, as well as the water content and capacity of the object. The maximum sensing distance of E2K-F will be available if the object is made of grounded metal. There are objects that cannot be detected indirectly. Therefore test E2K-F in a trial operation with the objects before using E2K-F in actual applications.

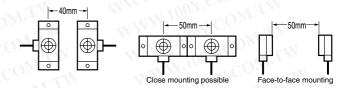
Effects of Surrounding Metal

Separate E2K-F from ambient metals as shown below.



Mutual Interference

If installing more than one E2K-F face to face or side by side, separate them as shown below.



Effect of High-frequency Electro-magnetic Field

E2K-F may malfunction if an ultrasonic washer, high-frequency generator, transceiver, or inverter are nearby.

For a typical measure, refer to the "Noise" with Common precautions of a photoelectric sensor in Rear B-page.

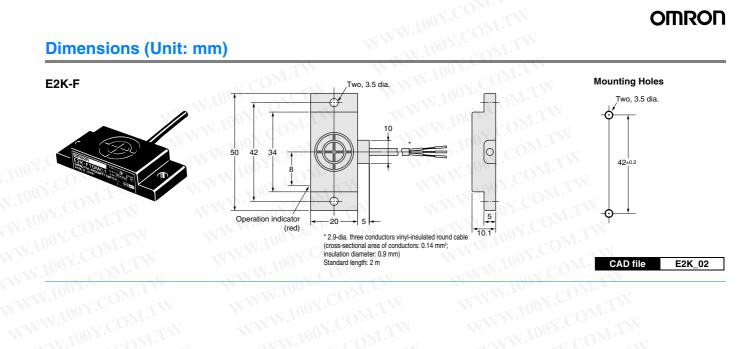
Wiring Considerations

The characteristics of E2K-F will not change if the cord is extended. Keep in mind that voltage drops may occur due to the cord extension, thus, ensure that the total cord length does not exceed 200 m.

E2K-F E-81

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Dimensions (Unit: mm)



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