OMRON

Inductive Coupler

F92A

Coupler Transmits Mechanical Switch Closure Signals to Inductive Proximity Sensors



- Ideal for reliable detection of revolving, moving objects
- Works with any M18 size inductive proximity sensor, such as E2E-X5 or E2F-X5
- Coupler operates without power supply
- Provides positive signal transmission even through non-metallic walls of glass or resin
- Water, oil and dust resistant to IP67 standards
- Prewired with 2 m (6.56 ft) of cable

Ordering Information

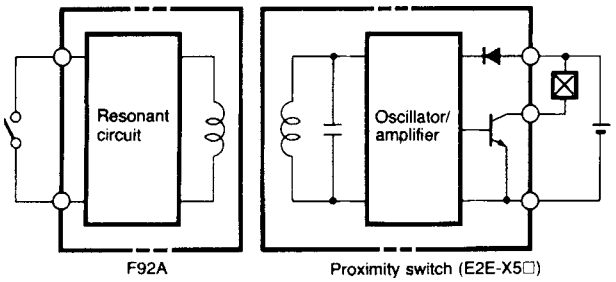
Size	Transmitting distance	Applicable receiver type	**Part number**
M18	5 mm (0.20 in)	Inductive proximity sensor such as E2E-X5, E2F-X5	**F92A-C-1**

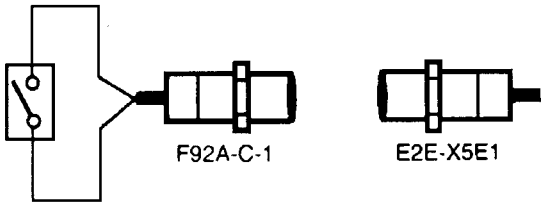
Specifications

Part number		F92A-C-1
Body		M18 size
Supply voltage		None required
Input signal device	Type	Mechanical contact switch
	Switching capacity	0.1 mA, 100 mV
	Control resistance	300 mΩ max.
Receiver	Type	M18 size inductive proximity sensor, such as Omron's E2E-X5 or E2F-X5
	Effective transmitting distance	5 mm (0.2 in) maximum
	Sensing distance	0.5 to 4.5 mm (0.02 to 0.18 in) from inductive proximity sensor
Response time		1 ms max. from contact closure input to output transmission
Materials	Housing	Nickel-plated brass
	Transmission face	Plastic
	Cable sheath	Plastic
Mounting		Two lock washers and M18 nuts included
Connections	Prewired	2-conductor cable, 2 m (6.56 ft) length; 5 m (16.4 ft) max. cable extension
Weight		Approx. 165 g (5.8 oz)
Enclosure ratings	UL	—
	NEMA	1, 3, 4X, 6, 12, 13
	IEC 144	IP67
Ambient operating temperature		-25°C to 70°C (-13°F to 158°F)

■ CIRCUIT DIAGRAM AND CONNECTIONS

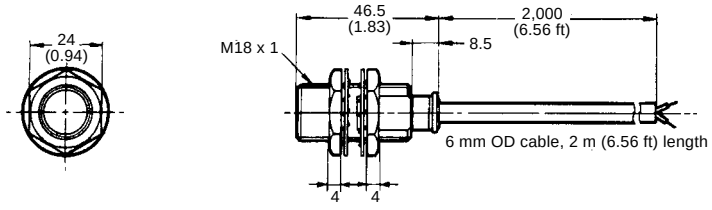
Signal initiation must originate from a small voltage/current type switch.





Dimensions

Unit: mm (inch)



NOTE: DIMENSIONS ARE SHOWN IN MILLIMETERS. To convert millimeters to inches divide by 25.4.

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