

Tubular Sensors

872C WorldProx™ 2-Wire AC

Plastic Face/Threaded Nickel-Plated Brass Barrel



872C AC Cable Style
8 mm



872C AC Cable Style
12, 18, and 30 mm



872C AC Mini
Quick-Disconnect Style
18 & 30 mm



872C AC Micro
Quick-Disconnect Style
12, 18, and 30 mm

Specifications

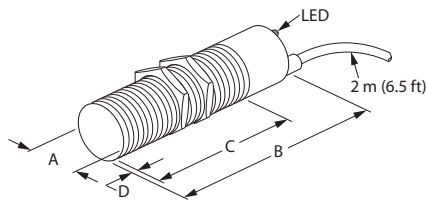
	8 mm	12, 18, and 30 mm
Load Current, Max.	100 mA	≤300 mA
Load Current, Min.	5 mA	
Inrush Current	≤2 A	
Leakage Current	≤2 mA	
Operating Voltage	20...240V AC	20...250V AC
Voltage Drop	≤5V	
Repeatability	≤5%	
Hysteresis	≤15% typical	
Protection Type	False pulse and transient noise	
Certifications	cULus Listed (12, 18, and 30 mm models only) and CE Marked (all models) for all applicable directives	
Enclosure Type Rating	NEMA 1, 2, 3, 4, 12, 13; IP67 (IEC 529)	
Housing Material	Nickel-plated brass barrel	
Connection Type	Cable: 2 m (6.5 ft) length, 3-conductor PVC Quick-Disconnect: 3-pin micro style, 3-pin mini style	
LED	Red: output energized, 360° visibility	
Operating Temperature [C (F)]	-25...+70 ° (-13...+158 °)	
Shock	30 g, 11 ms	
Vibration	55 Hz, 1 mm amplitude, 3 planes	

Correction Factors

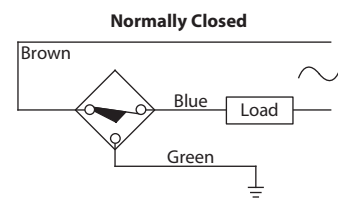
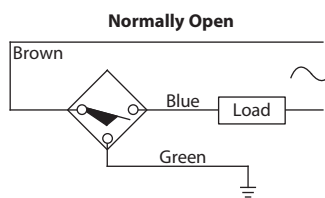
Target Material	Correction Factors
Steel	1.0
Stainless Steel	0.9
Brass	0.5
Aluminum	0.45
Copper	0.4

Approximate Dimensions [mm (in.)]

Cable Style



Wiring Diagrams

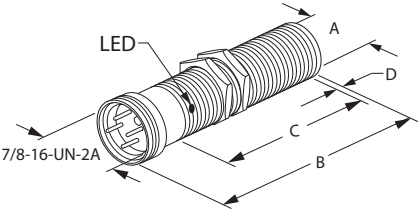


Note: Load can be switched to brown wire.

Thread Size	Shielded	[mm (in.)]			
		A	B	C	D
M8 x 1	Yes	8.0 (0.31)	47.0 (1.85)	36.0 (1.42)	—
	No	6.0 (0.24)			6.0 (0.24)
M12 x 1	Yes	12.0 (0.47)	70.0 (2.76)	60.0 (2.36)	—
	No			54.0 (2.13)	6.0 (0.24)
M18 x 1	Yes	18.0 (0.71)	60.0 (2.36)	50.0 (1.96)	—
	No			42.0 (1.65)	8.0 (0.31)
M30 x 1	Yes	30.0 (1.18)	60.0 (2.36)	50.0 (1.96)	—
	No			38.0 (1.50)	12.0 (0.47)

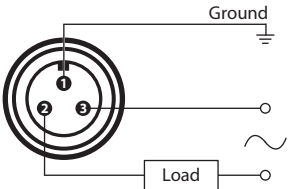
Approximate Dimensions [mm (in.)]

Mini QD Style



Wiring Diagrams

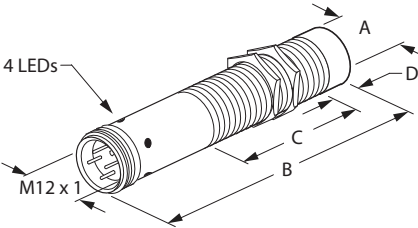
Normally Open or Normally Closed



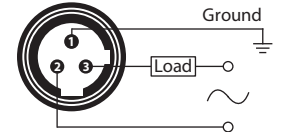
Note: Load can be switched to pin 3.

Thread Size	Shielded	[mm (in.)]			
		A	B	C	D
M18 x 1	Yes	18.0 (0.71)	91.0 (3.58)	52.0 (2.05)	—
	No			44.0 (1.73)	8.0 (0.31)
M30 X 1.5	Yes	30.0 (1.18)	91.0 (3.58)	52.0 (2.05)	—
	No			40.0 (1.57)	12.0 (0.47)

Micro QD Style



Normally Open or Normally Closed



Note: Load can be switched to pin 2.

Thread Size	Shielded	[mm (in.)]			
		A	B	C	D
M12 x 1	Yes	12.0 (0.47)	75.0 (2.95)	45.0 (1.77)	—
	No			40.0 (1.57)	6.0 (0.24)
M18 x 1	Yes	18.0 (0.71)	80.0 (3.15)	60.0 (2.36)	—
	No			52.0 (2.05)	8.0 (0.31)
M30 X 1.5	Yes	30.0 (1.18)	80.0 (3.15)	50.0 (1.96)	—
	No			38.0 (1.50)	12.0 (0.47)