

872C WorldProx™ 2-Wire AC/DC

Plastic Face/Threaded Nickel-Plated Brass Barrel



872C AC/DC Cable Style
12, 18, 30 mm



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

Specifications

	12 mm	18 & 30 mm
Load Current	300 mA	350 mA
Minimum Load Current	2 mA	
Inrush Current (1 cycle)	≤2A	
Leakage Current	≤1.7 mA @ 120V and ≤1.9 mA @ 250V	
Operating Voltage	20...250V AC/DC	
Voltage Drop	≤5V	
Repeatability	≤5%	
Hysteresis	≤10% typical	
False Pulse Protection	Incorporated	
Transient Noise Protection	Incorporated	
Short Circuit Protection	Incorporated	
Overload Protection	Incorporated	
Certifications	cULus Listed and CE Marked for all applicable directives	
Enclosure	NEMA 1, 2, 3, 4, 12, 13 IP67 (IEC 529) Nickel-plated brass barrel	
Connections	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 and Vibration	30 g, 10...55 Hz	

Features

- 2-wire operation
- 3-conductor or 3-pin connection
- 20...250V AC/DC
- Normally open or normally closed output
- False pulse, transient noise, short circuit, and overload protection
- cULus Listed and CE Marked for all applicable directives

Correction Factors

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

QD Cordsets and Accessories

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Inductive Proximity Sensors
872C WorldProx™ 2-Wire AC/DC
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Product Selection

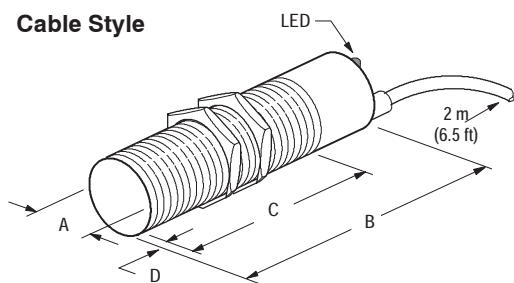
Barrel Diameter [mm]	Nominal Sensing Distance [mm (in.)]	Shielded	Output Configuration	Switching Frequency [Hz]	Cat. No.	
					Cable Style	Micro QD Style
12	2 (0.08)	Yes	N.O.	30	872C-J2N12-A2	872C-J2N12-R3
	4 (0.16)	No	N.O.		872C-K4N12-A2	872C-K4N12-R3
			N.C.		872C-K4C12-A2	872C-K4C12-R3
18	5 (0.20)	Yes	N.O.		872C-J5N18-A2	872C-J5N18-R3
			N.C.		872C-J5C18-A2	872C-J5C18-R3
	8 (0.32)	No	N.O.		872C-K8N18-A2	872C-K8N18-R3
			N.C.		872C-K8C18-A2	—
30	10 (0.39)	Yes	N.O.		872C-J10N30-A2	872C-J10N30-R3
			N.C.		872C-K15N30-A2	872C-K15N30-R3
	15 (0.59)	No	N.C.		872C-K15C30-A2	—

Recommended Standard QD Cordset (-6F = 1.8 m (6 ft), -2 = 2 m (6.5 ft))

889R-F3ECA-2

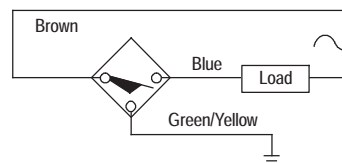
Approximate Dimensions [mm (in.)]

Cable Style



Wiring Diagrams

Normally Open



NOTE: Load can be switched to brown wire.

Thread Size	Shielded	[mm (in.)]			
		A	B	C	D
M12 X 1	Y	12.0 (0.47)	70.0 (2.76)	60.0 (2.36)	—
	N			54.0 (2.13)	6.0 (0.24)
M18 X 1	Y	18.0 (0.71)	60.0 (2.36)	50.0 (1.96)	—
	N			42.0 (1.65)	8.0 (0.31)
M30 X 1.5	Y	30.0 (1.18)	60.0 (2.36)	50.0 (1.96)	—
	N			38.0 (1.50)	12.0 (0.47)

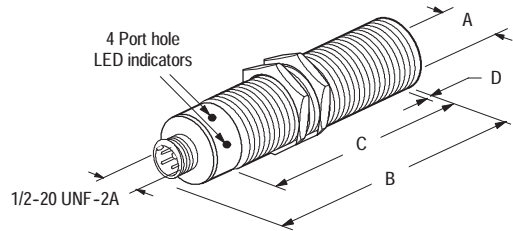
Inductive Proximity Sensors

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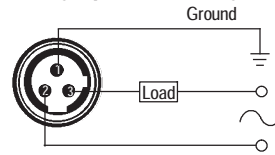
Approximate Dimensions [mm (in.)]

Micro Quick-Disconnect Style



Wiring Diagrams

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	Y	12.0 (0.47)	75 (2.95)	45.0 (1.77)	—
	N			40.0 (1.57)	6.0 (0.24)
M18 X 1	Y	18.0 (0.71)	80.0 (3.15)	60.0 (2.36)	—
	N			52.0 (2.05)	8.0 (0.31)
M30 X 1.5	Y	30.0 (1.18)	80.0 (3.15)	50.0 (1.96)	—
	N			38.0 (1.50)	12.0 (0.47)