

872C WorldProx™ 2-Wire AC/DC

Plastic Face/Threaded Nickel-Plated Brass Barrel



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



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

**Specifications**

	12mm	18 & 30mm
Load Current	350mA	
Minimum Load Current	2mA	
Inrush Current (1 cycle)	≤2A	≤4A
Leakage Current	≤1.7mA @ 120V and ≤1.9mA @ 250V	
Operating Voltage	20–250V AC/DC	
Voltage Drop	≤9V @ 2mA and ≤5V @ 350mA	
Repeatability	≤5%	
Hysteresis	≤10% typical	
False Pulse Protection	Incorporated	
Approvals	CE marked for all applicable directives	
Enclosure	NEMA 1, 2, 3, 4, 12, 13 IP67 (IEC 529) Nickel-plated brass barrel	
Connections	Cable: 2m (6.5ft) length 3-conductor PVC Quick-Disconnect: 3-pin micro style 3-pin mini style	
LED	Red: Target Present	
Operating Temperature	–25°C to +70°C (–13°F to +158°F)	
Shock and Vibration	30g, 10–55Hz	

Features

- 2-wire operation
- 3-conductor or 3-pin connection
- 20–250V AC/DC
- Normally open or normally closed output
- False pulse protection
- 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

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Product Selection

Barrel Diameter	Nominal Sensing Distance mm (inches)	Shielded	Output Configuration	Switching Frequency (Hz)	Catalog Number	
					Cable Style	Micro QD Style
12mm	2 (0.08)	Y	N.O.	30	872C-J2N12-A2	872C-J2N12-R3
	4 (0.16)	N			872C-K4N12-A2	872C-K4N12-R3
18mm	5 (0.20)	Y			872C-J5N18-A2	872C-J5N18-R3
	8 (0.32)	N			872C-K8N18-A2	872C-K8N18-R3
30mm	10 (0.39)	Y			872C-J10N30-A2	872C-J10N30-R3
	15 (0.59)	N			872C-K15N30-A2	872C-K15N30-R3
Recommended Standard QD Cordset (-2 = 2m (6.5ft))					889R-F3ACA-2	

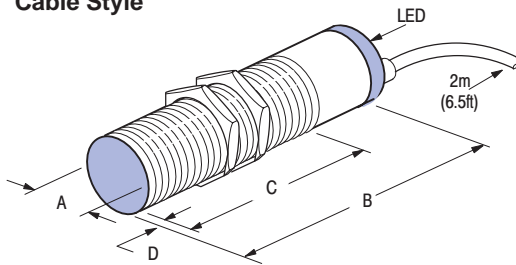
Note: Normally closed and mini QD units available. Contact factory for details.

QD Cordsets and Accessories

Description	Page Number
Other Cordsets Available	R8-2
Terminal Chambers	R8-2
Mounting Brackets	R2-196 - R2-200
End Caps	R2-206
Mounting Nuts	R2-207 - R2-208

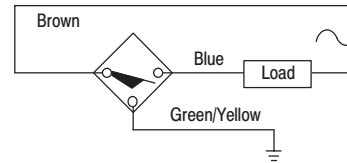
Dimensions—mm (inches)

Cable Style



Wiring Diagrams

Normally Open



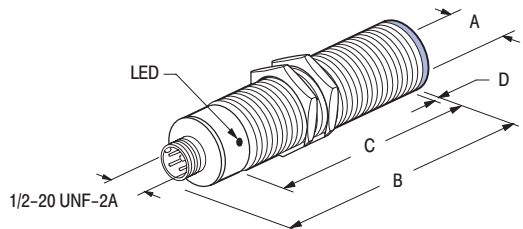
NOTE: Load can be switched to brown wire.

Thread Size	Shielded	mm (inches)			
		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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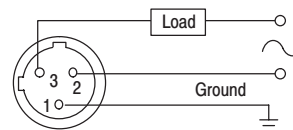
Dimensions—mm (inches)

Micro Quick-Disconnect Style



Wiring Diagrams

Normally Open or Normally Closed



Note: Load can be switched to pin 2.

Thread Size	Shielded	mm (inches)			
		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)	54.0 (2.12)	—
	N			46.0 (1.81)	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)