

**872C WorldProx™ 2-Wire AC/DC**

Plastic Face/Threaded Nickel-Plated Brass Barrel



872C AC/DC Cable Style  
12, 18, 30mm  
page 2-70



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

	12mm	18 & 30mm
<b>Load Current</b>	350mA	
<b>Minimum Load Current</b>	2mA	
<b>Inrush Current (1 cycle)</b>	≤2A	≤4A
<b>Leakage Current</b>	≤1.7mA @ 120V and ≤1.9mA @ 250V	
<b>Operating Voltage</b>	20–250V AC/DC	
<b>Voltage Drop</b>	≤9V @ 2mA and ≤5V @ 350mA	
<b>Repeatability</b>	≤5%	
<b>Hysteresis</b>	≤10% typical	
<b>False Pulse Protection</b>	Incorporated	
<b>Approvals</b>	CE marked for all applicable directives	
<b>Enclosure</b>	NEMA 1, 2, 3, 4, 12, 13 IP67 (IEC 529) Nickel-plated brass barrel	
<b>Connections</b>	Cable: 2m (6.5ft) length 3-conductor PVC Quick-Disconnect: 3-pin micro style 3-pin mini style	
<b>LED</b>	Red: Target Present	
<b>Operating Temperature</b>	–25°C to +70°C (–13°F to +158°F)	
<b>Shock and Vibration</b>	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)	Y			872C-K15N30-A2	872C-K15N30-R3
		N				
Recommended Standard QD Cordset (-2 = 2m (6.5ft))					889R-F3ACA-2	

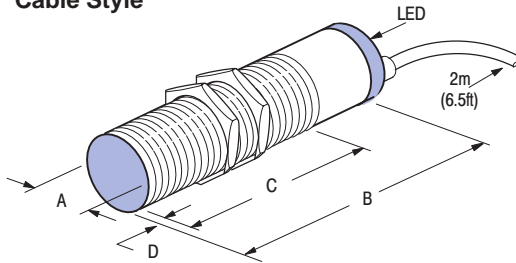
Note: Normally closed and mini QD units available. Contact factory for details.

## QD Cordsets and Accessories

Description	Page Number
Other Cordsets Available	8-8, 8-68
Terminal Chambers	8-20, 8-81
Mounting Brackets	2-196 - 2-200
End Caps	2-206
Mounting Nuts	2-207 - 2-208

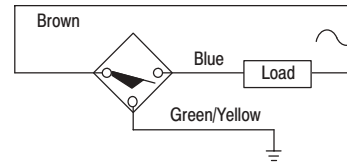
## Dimensions—mm (inches)

### Cable Style



## Wiring Diagrams

### Normally Open



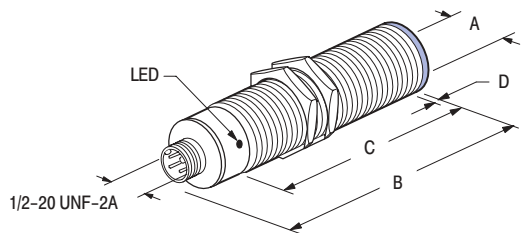
NOTE: Load can be switched to brown wire.

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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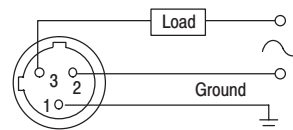
**Dimensions—mm (inches)**

**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)	54.0 (2.13)	—
	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			42.0 (1.65)	8.0 (0.31)
M30 X 1.5	Y	30.0 (1.18)	80.0 (3.15)	60.0 (2.36)	—
	N			38.0 (1.50)	12.0 (0.47)