

# 872C WorldProx™ QuadroPlex™ 2-Wire DC

Plastic Face/Threaded Nickel-Plated Brass Barrel



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



## Features

- 2-wire operation
- 4-pin connection
- 10–30V DC
- Normally open or normally closed output
- Short circuit, overload, false pulse, and transient noise protection
- UL listed, c-UL listed, and CE marked for all applicable directives

## Specifications

Barrel Diameter	12mm	18mm & 30mm
<b>Load Current</b>	100mA	200mA
<b>Minimum Load Current</b>	5mA	
<b>Leakage Current</b>	≤1mA	
<b>Operating Voltage</b>	10–30V DC	
<b>Voltage Drop</b>	≤6V @ 100mA	≤6.5V @ 200mA ≤6.0V @ 100mA
<b>Repeatability</b>	≤10% at constant temperature	
<b>Hysteresis</b>	10% typical	
<b>Transient Noise Protection</b>	Incorporated	
<b>Short Circuit Protection</b>	Incorporated	
<b>Overload Protection</b>	Incorporated	
<b>False Pulse Protection</b>	Incorporated	
<b>Approvals</b>	UL listed, c-UL certified for Canada, and CE marked for all applicable directives	
<b>Enclosure</b>	NEMA 1, 2, 3, 4, 6P, 12, 13 IP67 (IEC529) Nickel-plated brass barrel, plastic face (PBT)	
<b>Connections</b>	Quick-Disconnect: 4-pin micro style	
<b>LED</b>	Red: Output energized, 360° visibility	
<b>Operating Temperature</b>	–25°C to +70°C (–13°F to +158°F)	
<b>Shock</b>	30g, 11ms	
<b>Vibration</b>	55Hz, 1mm amplitude, 3 planes	

## Correction Factors

Target Material	Correction Factor
Steel	1.0
Stainless Steel	0.7–0.8
Brass	0.4–0.5
Aluminum	0.3–0.4
Copper	0.2–0.3

Inductive Proximity Sensors  
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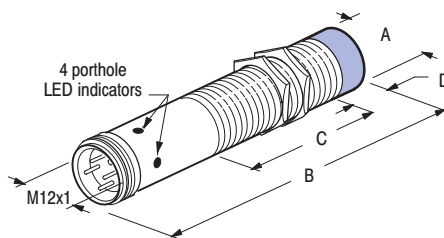
**Product Selection**

Barrel Diameter	Nominal Sensing Distance mm (inches)	Shielded	Output Configuration	Switching Frequency (Hz)	Catalog Number
					Micro QD Style
12mm	3 (0.12)	Y	N.O. or N.C. ❶	2000	872C-M3Q12-D4
	4 (0.16)	N			872C-N4Q12-D4
18mm	5 (0.20)	Y		1000	872C-M5Q18-D4
	8 (0.31)	N			872C-N8Q18-D4
30mm	10 (0.39)	Y		500	872C-M10Q30-D4
	15 (0.59)	N			872C-N15Q30-D4
Recommended Standard QD Cordset (-2 = 2m (6.5ft))					889D-F4AC-2

❶ Depending upon wiring diagram.

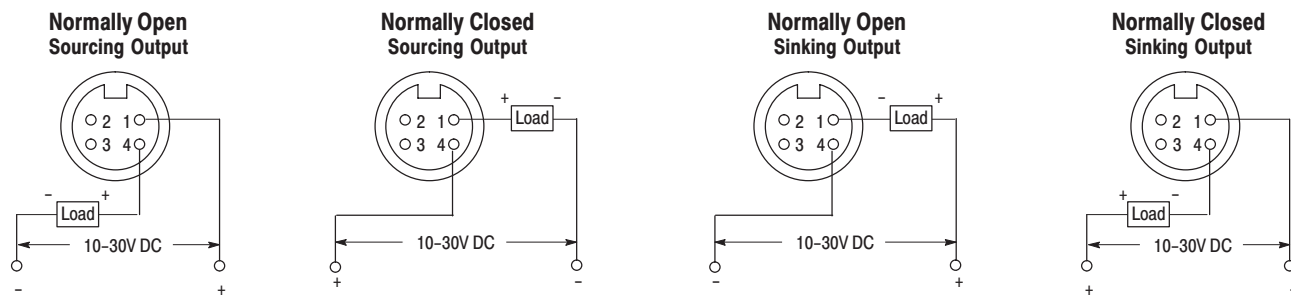
**Dimensions—mm (inches)**

**Micro Quick-Disconnect Style**



Thread Size	Shielded	mm (inches)			
		A	B (max)	C (min)	D (max)
M12 X 1	Y	12.0 (0.47)	65.0 (2.56)	38.1 (1.50)	—
	N		72.4 (2.85)		7.9 (0.31)
M18 X 1	Y	18.0 (0.71)	65.0 (2.56)		—
	N		76.5 (3.01)		12.2 (0.48)
M30 X 1.5	Y	30.0 (1.18)	65.0 (2.56)		—
	N		76.5 (3.01)		12.2 (0.48)

**Wiring Diagrams**



**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