

871TM 2-Wire AC/DC PLC Interfacer**Stainless Steel Face/Threaded Short Stainless Steel Barrel**

871TM AC/DC Cable Style
12, 18, 30 mm



871TM AC/DC Mini
Quick-Disconnect Style
12, 18, 30 mm



871TM AC/DC Micro
Quick-Disconnect Style
12, 18, 30 mm



871TM AC/DC EAC Micro
Quick-Disconnect Style
12 mm

Specifications

Load Current	2...25 mA
Leakage Current	≤0.9 mA at 24V DC ≤1.7 mA at 20...120V AC/DC; ≤2.5 mA at 121...250V AC/DC
Operating Voltage	20...250V AC/DC
Voltage Drop	≤8V at 25 mA DC ≤10V at 25 mA AC
Repeatability	10% typical
Hysteresis	10% typical
False Pulse Protection	Incorporated
Transient Noise Protection	Incorporated
Radio Frequency Protection	10V per meter Frequency range 20...1000MHz
Certifications	UL Listed, CSA Certified and CE Marked for all applicable directives
Enclosure	NEMA 1, 2, 3, 3R, 4, 4X, 6, 6P, 12, 13, IP67 (IEC 529) all models; 1200 psi (8270 kPa) washdown; stainless steel face and barrel; ToughLink™ and micro connector versions are also rated IP69K (IEC 529)
Connections	Cable: 2 m (6.5 ft) length A2—2-conductor #22 AWG PVC C2—2-conductor #22 AWG ToughLink H2—2-conductor #18 AWG ToughLink Quick-Disconnect: 3-pin mini style 3-pin micro style 4-pin EAC micro style
LED	Red: Output energized
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 Factor
Steel	1.0
Stainless Steel	0.8...1.0
Brass	0.4...0.7
Aluminum	0.4...0.7
Copper	0.2...0.5

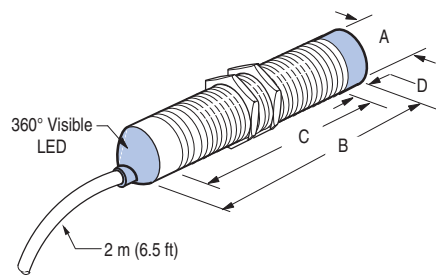
Features

- Designed for low load current PLC, I/O, and PC applications
- 2-wire operation
- 2-conductor, 3-pin or 4-pin connection
- 20...250V AC/DC
- Normally open or normally closed output
- False pulse, transient noise, and radio frequency protection
- UL Listed, CSA Certified, and CE Marked for all applicable directives

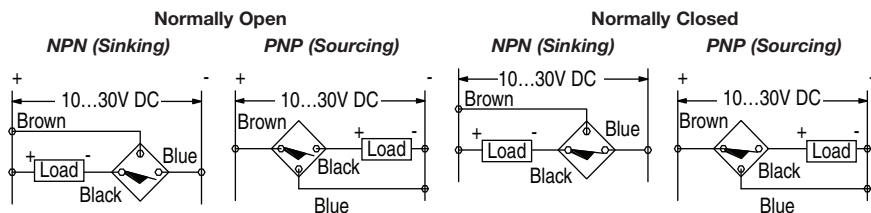
Inductive Proximity Sensors
872C/872CT WorldProx™ Short Barrel 3-Wire DC
 Plastic Face/ Threaded Nickel-Plated Brass or Stainless Steel Barrel

Approximate Dimensions—mm (in)

Cable Style

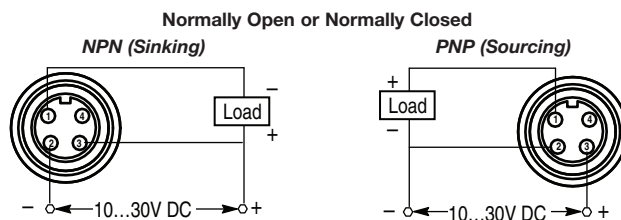
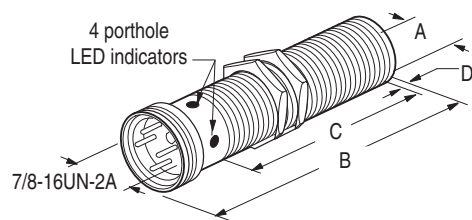


Wiring Diagrams



Thread Size	Barrel Type	Shielded	mm (inches)			
			A	B (max)	C (min)	D (max)
M8 x 1	Nickel-plated brass and stainless steel	Y	8.00 (0.31)	26.7 (1.05)	24.1 (0.95)	—
		N		30.7 (1.21)		4.10 (0.16)
Y		12.0 (0.47)	34.8 (1.37)	31.8 (1.25)	—	
N			42.9 (1.69)		8.10 (0.32)	
M18 x 1		Y	18.0 (0.71)		34.8 (1.37)	—
		N			47.0 (1.85)	12.2 (0.48)
M30 x 1	Nickel-plated brass	Y	30.0 (1.18)	34.8 (1.37)	—	
		N		47.0 (1.85)	12.2 (0.48)	
	Stainless steel	Y		37.3 (1.47)	34.3 (1.35)	—
		N		49.5 (1.95)		12.2 (0.48)

Mini QD Style



Thread Size	Barrel Type	Shielded	mm (inches)			
			A	B (max)	C (min)	D (max)
M18 x 1	Nickel-plated brass and stainless steel	Y	18.0 (0.71)	47.5 (1.87)	24.2 (0.95)	—
		N		59.7 (2.35)		12.2 (0.48)
M30 X 1.5	Nickel-plated brass	Y	30.0 (1.18)	47.5 (1.87)	26.4 (1.04)	—
		N		59.7 (2.35)		12.2 (0.48)
	Stainless steel	Y		50.8 (2.00)	34.3 (1.35)	—
		N		63.0 (2.48)		12.2 (0.48)