

871T 2-Wire AC

Plastic Face/Threaded Stainless Steel Barrel



871T AC Cable Style
12, 18mm



871T AC Mini
Quick-Disconnect Style
18mm



Features

- 2-wire operation
- 2-conductor, 3-conductor, or 3-pin connection
- 20–132V AC
- False pulse and transient noise protection
- Normally open or normally closed output
- UL listed, CSA certified, and CE marked for all applicable directives

Specifications

	12mm	18mm
Load Current	≤300mA	≤500mA
Inrush Current (1 cycle)	≤3A	≤5A
Leakage Current	≤1.5mA	
Supply Current (minimum)	5mA	
Operating Voltage	20–132V AC	
Voltage Drop	6.5V AC at 500mA, 10V AC at 20mA (RMS)	
Repeatability	≤10%	
Hysteresis	≤10% typical	
False Pulse Protection	Incorporated	
Transient Noise Protection	Incorporated	
Approvals	UL listed, CSA certified, and CE marked for all applicable directives	
Enclosure	NEMA 1, 2, 3, 4, 12 and 13 IP67 (IEC 529) 303 Stainless steel barrel	
Connections	Cable: 3m (10ft) length 12mm—2 conductor PVC 18mm—3 conductor PVC Quick-Disconnect: 3-pin mini style	
LED	Red: Output Energized (none on 871T-G5Q18FT)	
Operating Temperature	-40°C to +70°C (-40°F to +158°F)	
Shock	30g, 11ms	
Vibration	55Hz, 1mm amplitude, 3 planes	

Correction Factors

Target Material	Correction Factors
Steel	1.0
Stainless Steel	0.7-0.9
Brass	0.3-0.5
Aluminum	0.3-0.4
Copper	0.3-0.4

Product Selection

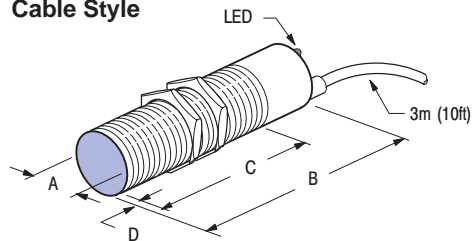
Barrel Diameter	Nominal Sensing Distance mm (inches)	Shielded	Output Configuration	Switching Frequency (Hz)	Catalog Number	
					Cable Style	Mini QD Style
12mm	2 (0.08)	Y	N.O.	50	871T-G2A12	—
	4 (0.16)	N			871T-G4B12	—
	2 (0.08)	Y	871T-H2A12		—	
	4 (0.16)	N	871T-H4B12		—	
18mm	5 (0.20)	Y	N.O.		871T-G5A18	871T-G5J18
	8 (0.31)	N			—	871T-G5Q18FT
	5 (0.20)	Y	N.C.		871T-G8B18	871T-G8K18
	8 (0.31)	N			871T-H5A18	871T-H5J18
				871T-H8B18	871T-H8K18	
Recommended Standard QD Cordset (-6F = 1.8m (6ft))						889N-F3AFC-6F

QD Cordsets and Accessories

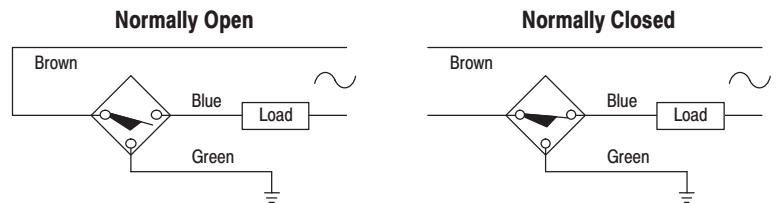
Description	Page Number
Other Cordsets Available	R8-2
Terminal Chambers	R8-2
Mounting Brackets	R2-196 - R2-200
End Caps	R2-206
Mounting Nuts	R2-207 - R2-208

Dimensions—mm (inches)

Cable Style



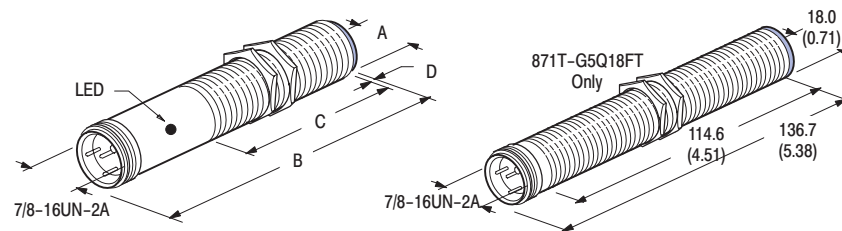
Wiring Diagrams



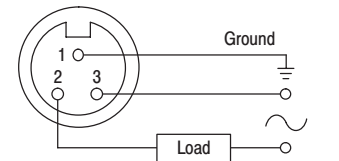
Note 1: No green wire on 12mm. Attach housing to ground.
Note 2: Load can be switched to brown wire.

Thread Size	Shielded	mm (inches)			
		A	B	C	D
M12 X 1	Y	12.0 (0.47)	80.0 (3.15)	53.8 (2.12)	0.8 (0.03)
	N			46.5 (1.83)	8.1 (0.32)
M18 X 1	Y	18.0 (0.71)	81.5 (3.21)	55.6 (2.19)	0.8 (0.03)
	N			43.7 (1.72)	12.3 (0.48)

Mini Quick-Disconnect Style



Normally Open or Normally Closed



Note: Load can be switched to pin 3.

Thread Size	Shielded	mm (inches)			
		A	B	C	D
M18 X 1	Y	18.0 (0.71)	96.9 (3.81)	51.9 (2.04)	0.8 (0.03)
	N			40.4 (1.59)	12.3 (0.48)