

871T 2-Wire or 4-Wire AC Ferrous Selective

Stainless Steel Face/Threaded Stainless Steel Barrel



871T AC Cable Style
18mm
page 2-75



871T AC Mini
Quick-Disconnect Style
18mm
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Features

- 2-wire or 4-wire operation
- 20–132V AC
- Normally open or complementary (N.O. and N.C.) outputs
- Ferrous selective sensing
- Stainless steel active sensing face
- False pulse and transient noise protection
- CE marked for all applicable directives

Specifications

Load Current	≤500mA
Inrush Current (1 cycle)	≤5A
Supply Current (minimum)	5mA
Leakage Current	≤1.7mA
Operating Voltage	20–132V AC
Voltage Drop	N.O. output: 6.5V AC at 500mA, 10V AC at 20mA (RMS) N.C. output: 1.7V AC at 500mA (RMS)
Isolation Voltage	800V AC (output to output); 1500V AC (output to housing)
Repeatability	≤10%
Hysteresis	≤10% typical
False Pulse Protection	Incorporated (Delay on power-up ≤100ms)
Transient Noise Protection	Incorporated
Approvals	CE marked for all applicable directives
Enclosure	NEMA 3, 4, 12 and 13, IP67 (IEC 529) Stainless steel face and barrel
Connections	Cable: 3.6m (12ft) length 5-conductor PVC Quick-Disconnect: 5-pin mini style 3-pin mini style
LEDs	Red: Output Energized Green: Power
Ambient Temperature	-0°C to +70°C (+32°F to +158°F)

Correction Factors

Target Material	Correction Factor
Steel	1.0
Stainless Steel ^①	0.8–1.1
Brass	0.0
Aluminum	0.0
Copper	0.0

① Stainless Steel containing carbon

Inductive Proximity Sensors
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Product Selection

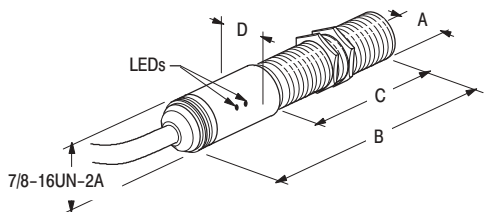
Barrel Diameter	Nominal Sensing Distance mm (inches)	Shielded	Output Configuration	Switching Frequency (Hz)	Catalog Number		
					Cable Style	Mini QD 3-pin Style	Mini QD 5-pin Style
18mm	3 (0.12)	Y	N.O. and N.C.	10	871T-A3A18FE-12	—	871T-A3J18FE
	5 (0.20)				871T-A5A18FE-12	—	871T-A5J18FE
	3 (0.12)		N.O.		—	871T-AX01	—
Recommended Standard QD Cordset (-6F = 1.8m (6ft))					889N-F3AFC-6F		889N-F5AFC-6F

QD Cordsets and Accessories

Description	Page Number
Other Cordsets Available	7-8
Terminal Chambers	7-20
Mounting Brackets	2-186 - 2-190
End Caps	2-196
Mounting Nuts	2-197 - 2-198

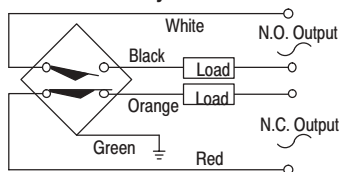
Dimensions—mm (inches)

Cable Style



Wiring Diagrams

Complementary Normally Open and Normally Closed

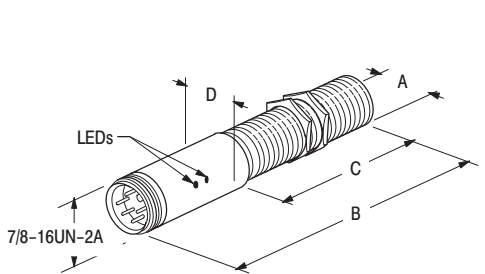


Notes:

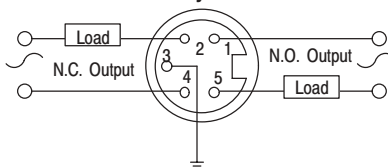
1. N.O. output must be wired for operation. N.C. output is optional.
2. N.O. load can be switched to white wire.
3. N.C. load can be switched to red wire.

Thread Size	mm (inches)				Catalog Number
	A	B	C	D	
M18x1	18.0 (0.71)	104.1 (4.10)	53.3 (2.10)	20.3 (0.80)	871T-A3A18FE-12
		101.6 (4.00)	50.8 (2.00)		871T-A5A18FE-12

Mini Quick-Disconnect Style



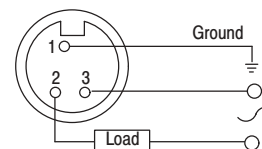
Normally Open and Normally Closed



Notes:

1. N.O. output must be wired for operation. N.C. output is optional.
2. N.O. load can be switched to pin 1.
3. N.C. load can be switched to pin 4.

Normally Open



Note: Load can be switched to pin 3.

Thread Size	mm (inches)				Catalog Number
	A	B	C	D	
M18x1	18.0 (0.71)	104.1 (4.10)	53.3 (2.10)	20.3 (0.80)	871T-AX01
			50.8 (2.00)		871T-A3J18FE
		871T-A5J18FE			