

## 871C 2-Wire AC

Plastic Face/Threaded Plastic Barrel



871C AC Cable Style  
18, 30mm  
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### Specifications

Barrel Diameter	18mm	30mm
Load Current	≤180mA	≤300mA
Inrush Current (1 cycle)	≤1A	≤3A
Leakage Current	≤1.7mA	
Operating Voltage	24–250V AC	
Voltage Drop	≤11V	
Hysteresis	≤20% typical	
Transient Noise Protection	Incorporated	
Approvals	CE marked for all applicable directives	
Enclosure	NEMA 1, 2, 3, 4, 4X, 12, 13 IP67 (IEC 529) Plastic barrel	
Connections	Cable: 2m (6.5ft) length 2-conductor PVC	
LED	Red: Output energized	
Operating Temperature	-25°C to +55°C (-13°F to +131°F)	
Shock	30g, 11ms	
Vibration	55Hz, 1mm amplitude, 3 planes	

### Features

- 2-wire operation
- 2-conductor connection
- 24–250V AC
- Normally open or normally closed output
- Transient noise protection
- CE marked for all applicable directives

### 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	0.3–0.4

### Product Selection

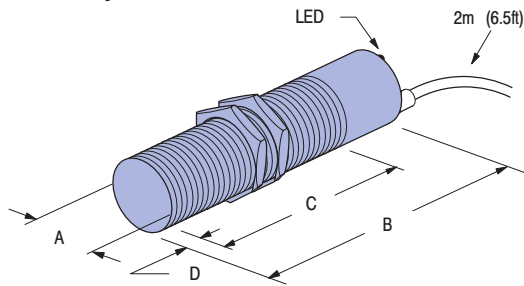
Barrel Diameter	Nominal Sensing Distance mm (inches)	Shielded	Output Configuration	Switching Frequency (Hz)	Catalog Number
					Cable Style
18mm	5 (0.20)	Y	N.O.	8	871C-C5S18
			N.C.		871C-D5S18
	8 (0.31)	N	N.O.		871C-C8R18
			N.C.		871C-D8R18
30mm	10 (0.39)	Y	N.O.		871C-C10S30
			N.C.		871C-D10S30
	15 (0.59)	N	N.O.		871C-C15R30
			N.C.		871C-D15R30

### Accessories

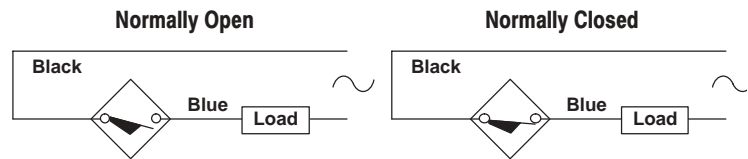
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### Dimensions—mm (inches)

#### Cable Style



### Wiring Diagram



**Note:** Load can be switched to black wire.

Thread Size	Shielded	mm (inches)			
		A	B	C	D
M18 X 1	Y	18.0 (0.71)	81.0 (3.19)	61.0 (2.40)	2.0 (0.08)
	N				
M30 X 1.5	Y	30.0 (1.18)	81.0 (3.19)		
	N				

Unshielded proximity sensors require a metal-free zone around the sensing face. Any metal immediately opposite the sensing face should be no closer than 3 times the rated nominal sensing distance of the sensor.