

# 875CP 2-Wire AC

Plastic Face/Threaded or Smooth Plastic Barrel



875CP AC Cable Style  
Smooth Barrel  
34mm  
page 4-17



875CP AC Cable Style  
Threaded Barrel  
18, 30mm  
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875CP AC Micro Quick-Disconnect Style  
Smooth Barrel  
34mm  
page 4-18



875CP AC Micro Quick-Disconnect Style  
Threaded Barrel  
30mm  
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## Specifications

<b>Load Current</b>	≤ 300mA
<b>Inrush Current</b>	2A
<b>Leakage Current</b>	<1.5mA
<b>Operating Voltage</b>	24-240V AC
<b>Voltage Drop</b>	<7.5V AC
<b>Repeatability</b>	≤ 10%
<b>Hysteresis</b>	≤ 20%
<b>Transient Noise Protection</b>	Incorporated
<b>Enclosure</b>	NEMA 1, 3, 4, 6, 13 and IP67
<b>Approval</b>	CE marked for all applicable directives
<b>Connections</b>	Cable: 2-meter length 2-conductor PVC Quick-Disconnect: 3-pin micro
<b>LEDs</b>	Green: Power Yellow: Output
<b>Operating Temperature</b>	-25°C to +70°C (-13°F to +158°F)

### Correction Factors

Target Material	Correction Factor
Acetone	0.75
Acrylic Resin	0.10 - 0.25
Air	0.0
Alcohol	0.85
Ammonia	0.70 - 0.85
Aniline	0.40
Aqueous Solutions	0.98 - 1.0
Bakelite	0.20
Benzene	0.10
Carbon Dioxide	0.0
Carbon Tetrachloride	0.10
Celluloid	0.15
Cement Powder	0.25
Cereal	0.15 - 0.30
Chlorine Liquid	0.10
Ebonite	0.15
Epoxy Resin	0.15 - 0.35
Ethanol	0.85
Ethylene Glycol	0.93
Fired Ash	0.05
Flour	0.05
Freon R22 & 502 (liquid)	0.35
Gasoline	0.10
Glass	0.20 - 0.55
Glycerine	0.98
Marble	0.50
Melamine Resin	0.25 - 0.55
Mica	0.35
Nitrobenzine	0.93
Nylon	0.20 - 0.30
Oil Saturated Paper	0.25
Paraffin	0.10
Paper	0.10

### Correction Factors

Target Material	Correction Factor
Perspex	0.15
Petroleum	0.05
Phenol Resin	0.20 - 0.60
Polyacetal	0.20
Polyamide	0.30
Polyester Resin	0.15 - 0.50
Polyethylene	0.10
Polypropylene	0.10
Polystyrene	0.15
Polyvinyl Chloride Resin	0.15
Porcelain	0.25 - 0.40
Powdered Milk	0.20
Press Board	0.10 - 0.30
Quartz Glass	0.20
Rubber	0.15 - 0.90
Salt	0.35
Sand	0.15 - 0.30
Shellac	0.15 - 0.25
Shell Lime	<0.05
Silicon Varnish	0.15
Soybean Oil	0.15
Styrene Resin	0.15
Sugar	0.15
Sulphur	0.15
PTFE	0.10
Toluene	0.10
Transformer Oil	0.10
Turpentine Oil	0.10
Urea Resin	0.30 - 0.45
Vaseline	0.10
Water	1.0
Wood, Dry	0.10 - 0.40
Wood, Wet	0.60 - 0.85

## Features

- Metal, nonmetal solid and liquid sensing capability
- Adjustable sensing distance
- 2-wire operation
- 2-conductor or 3-pin connection
- 24-240V AC
- Normally open or normally closed output
- Transient noise protection
- CE marked for all applicable directives

AB Parts

**Product Selection**

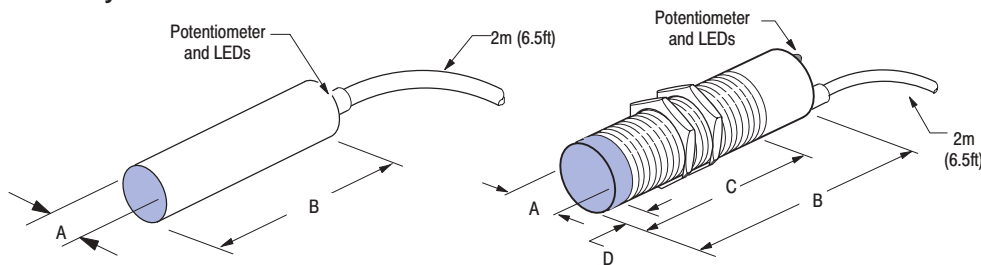
Barrel Diameter and Type	Nominal Sensing Distance mm (in)	Shielded	Output Configuration	Switching Frequency (Hz)	Catalog Number	
					Cable Style	Micro QD Style
18mm Threaded	2 (0.08) to 8 (0.31)	N	N.O.	25	875CP-G8N18-A2	—
			N.C.		875CP-G8C18-A2	—
N.O.	875CP-G20N30-A2		875CP-G20N30-R3			
N.C.	875CP-G20C30-A2		875CP-G20C30-R3			
N.O.	875CP-GM30N34-A2		875CP-GM30N34-R3			
N.C.	875CP-GM30C34-A2		875CP-GM30C34-R3			
30mm Threaded	5 (0.20) to 20 (0.79)					
34mm Smooth	7 (0.28) to 30 (1.18)					
Recommended Standard QD Cordset (-2 = 2m (6.5ft))						889R-F3ACA-2

**QD Cordsets and Accessories**

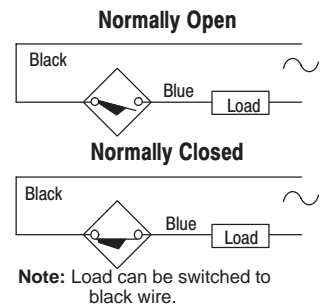
Description	Page Number
Mounting Brackets	2-186 - 2-190
Mounting Nuts	2-197 - 2-198
Sensor Wells	4-22
Terminal Chambers	7-81
Other Cordsets Available	7-68

**Dimensions—mm (inches)**

**Cable Style**



**Wiring Diagram**



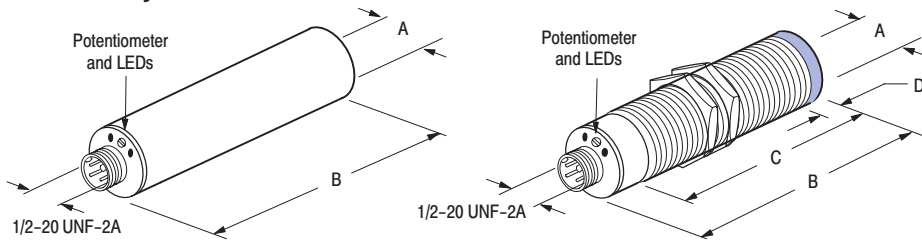
Diameter or Thread Size	mm (inches)			
	A	B	C	D
M18 x 1	18.0 (0.71)	52.0 (2.04)	52.0 (2.04)	1.0 (0.04)
M30 x 1.5	30.0 (1.18)	52.0 (2.04)	46.1 (1.81)	1.0 (0.04)
∅34	34.0 (1.34)	52.0 (2.04)	N/A	N/A

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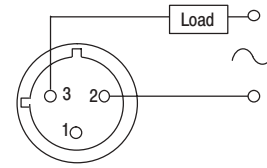
### Dimensions—mm (inches)

#### Micro QD Style



### Wiring Diagram

#### Normally Open or Normally Closed



Note: Load can be switched to pin 2.

Diameter or Thread Size	mm (inches)			
	A	B	C	D
M30 x 1.5	30.0 (1.18)	65.0 (2.56)	52.0 (2.04)	1.0 (0.04)
∅34	34.0 (1.34)	65.0 (2.56)	N/A	N/A