



872CP DC Cable Style
12, 18, 30mm



872CP DC Micro QD Style
12, 18, 30mm



Specifications

Load Current	≤200mA
Leakage Current	≤10μA
Operating Voltage	10–30V DC
Voltage Drop	≤1.6V
Repeatability	5%
Hysteresis	≤10% Typical
Transient Noise Protection	Incorporated
Reverse Polarity Protection	Incorporated
Short Circuit Protection	Incorporated
Overload Protection	Incorporated
False Pulse Protection	Incorporated
Approvals	UL listed, c-UL certified and CE marked for all applicable directives
Enclosure	NEMA 1, 2, 3, 4, 4X, 6P, 12, 13 IP67 (IEC 529) Plastic barrel
Connection	Cable: 2m (6.5ft) length 3-conductor PVC Quick-Disconnect: 4-pin micro style
LED	Red: Output Energized, 360° visibility
Operating Temperature	–25°C to +70°C (–13°F to +158°F)
Shock	30g, 11ms
Vibration	55Hz, 1mm amplitude, 3 planes

Features

- 3-wire operation
- 3-conductor connection
- 10–30V DC
- Normally open or normally closed output
- Transient noise, short circuit and reverse polarity protection
- Cable and micro quick-disconnect models
- UL recognized and 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

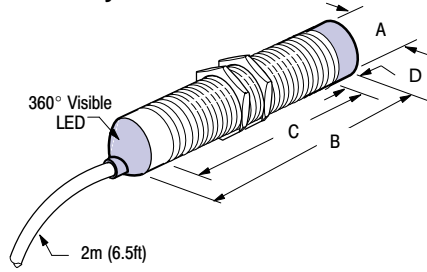
Selection Guide

Barrel Dia.	Nominal Sensing Distance mm (in)	Shielded	Output Configuration		Switching Frequency (Hz)	Catalog Number	
						Cable Style	Micro QD
12mm	3 (0.12)	Y	N.O.	NPN	2000	872CP-M3NN12-E2	872CP-M3NN12-D4
				PNP		872CP-M3NP12-E2	872CP-M3NP12-D4
			N.C.	NPN		872CP-M3CN12-E2	872CP-M3CN12-D4
				PNP		872CP-M3CP12-E2	872CP-M3CP12-D4
	4 (0.16)	N	N.O.	NPN		872CP-N4NN12-E2	872CP-N4NN12-D4
				PNP		872CP-N4NP12-E2	872CP-N4NP12-D4
			N.C.	NPN		872CP-N4CN12-E2	872CP-N4CN12-D4
				PNP		872CP-N4CP12-E2	872CP-N4CP12-D4
18mm	5 (0.20)	Y	N.O.	NPN	2000	872CP-M5NN18-E2	872CP-M5NN18-D4
				PNP		872CP-M5NP18-E2	872CP-M5NP18-D4
			N.C.	NPN		872CP-M5CN18-E2	872CP-M5CN18-D4
				PNP		872CP-M5CP18-E2	872CP-M5CP18-D4
	8 (0.31)	N	N.O.	NPN		872CP-N8NN18-E2	872CP-N8NN18-D4
				PNP		872CP-N8NP18-E2	872CP-N8NP18-D4
			N.C.	NPN		872CP-N8CN18-E2	872CP-N8CN18-D4
				PNP		872CP-N8CP18-E2	872CP-N8CP18-D4
30mm	10 (0.39)	Y	N.O.	NPN	2000	872CP-M10NN30-E2	872CP-M10NN30-D4
				PNP		872CP-M10NP30-E2	872CP-M10NP30-D4
			N.C.	NPN		872CP-M10CN30-E2	872CP-M10CN30-D4
				PNP		872CP-M10CP30-E2	872CP-M10CP30-D4
	15 (0.59)	N	N.O.	NPN		872CP-N15NN30-E2	872CP-N15NN30-D4
				PNP		872CP-N15NP30-E2	872CP-N15NP30-D4
			N.C.	NPN		872CP-N15CN30-E2	872CP-N15CN30-D4
				PNP		872CP-N15CP30-E2	872CP-N15CP30-D4
Recommended Standard QD Cordset (-6F = 1.8m (6ft), -2 = 2m (6.5ft))					889D-F4AC-2		

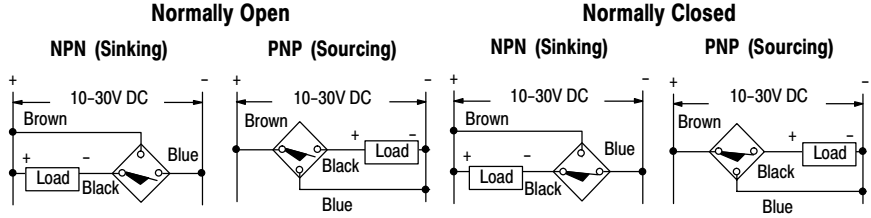
QD Cordsets and Accessories

Description	Page Number
Other Cordsets Available	5-8, 5-26, 5-52
Terminal Chambers	5-19
Mounting Brackets	2-188 - 2-192
End Caps	2-198
Mounting Nuts	2-199 - 2-200

Dimensions—mm (inches)
Cable Style

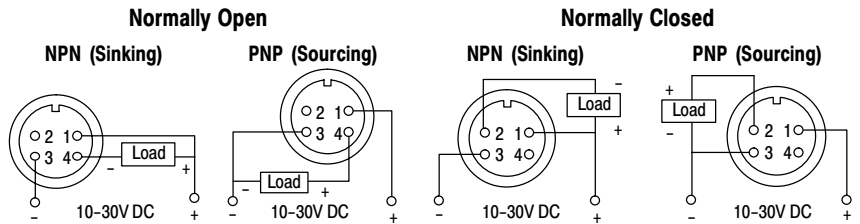
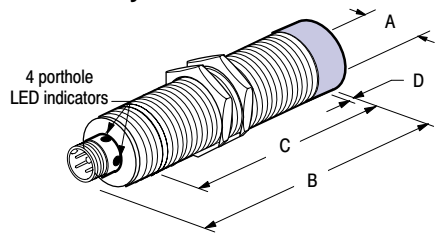


Wiring Diagrams



Thread Size	Shielded	mm (inches)			
		A	B (max)	C (min)	D (max)
M12 X 1	Y	12.0 (0.47)	71 (2.80)	60 (2.36)	2 (0.08)
	N				
M18 X 1	Y	18.0 (0.71)	61 (2.40)	57 (2.24)	
	N				
M30 X 1.5	Y	30.0 (1.18)			
	N				

Micro QD Style



Thread Size	Shielded	mm (inches)			
		A	B (max)	C (min)	D (max)
M12 X 1	Y	12.0 (0.47)	77 (2.13)	54 (2.13)	2 (0.08)
	N				
M18 X 1	Y	18.0 (0.71)	80 (3.15)	57 (2.24)	
	N				
M30 X 1.5	Y	30.0 (1.18)			
	N				

