



872C DC Cable Style
6.5mm



872C DC Pico
Quick-Disconnect Style
6.5mm



Specifications

Load Current	≤200mA
Leakage Current	≤10μA
Operating Voltage	10–30V DC
Voltage Drop	≤2.4V
Repeatability	≤5%
Hysteresis	10% typical
Reverse Polarity Protection	Incorporated
Transient Noise Protection	Incorporated
Short Circuit Protection	Incorporated
Overload Protection	Incorporated
False Pulse Protection	Incorporated
Approvals	CE marked for all applicable directives
Enclosure	NEMA 1, 2, 3, 4, 6P, 12, 13 IP67 (IEC529) Nickel-plated brass barrel, plastic face (PBT)
Connections	Cable: 2m (6.5ft) length, 4.4mm (0.175in) diameter 3-conductor #26AWG PVC Quick-Disconnect: 3-pin pico 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, 3-pin connection
- 10–30V DC
- Normally open or normally closed
- Reverse polarity, short circuit, overload, false pulse, and transient noise protection
- CE marked for all applicable directives

Correction Factors

Target Material	Correction Factors
Steel	1.0
Stainless Steel	0.7–0.8
Brass	0.4–0.5
Aluminum	0.3–0.4
Copper	0.2–0.3

Inductive Proximity Sensors

872C WorldProx™ 3-Wire DC

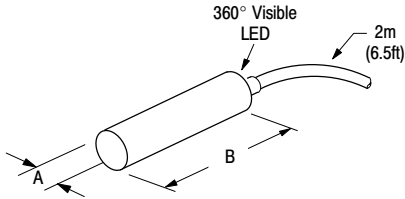
Plastic Face/Small Smooth Nickel-Plated Brass Barrel

Selection Guide

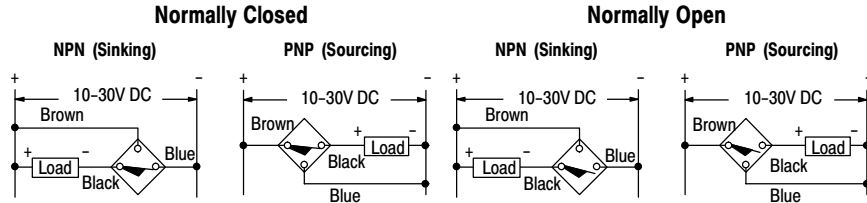
Barrel Diameter	Barrel Type	Nominal Sensing Distance mm (in)	Shielded	Output Configuration		Switching Frequency (Hz)	Catalog Number	
							Cable Style	Pico QD Style
6.5mm	Smooth	2.0 (0.08)	Y	N.O.	NPN	2000	872C-MM1NN7-E2	872C-MM1NN7-P3
					PNP		872C-MM1NP7-E2	872C-MM1NP7-P3
				N.C.	NPN		872C-MM1CN7-E2	872C-MM1CN7-P3
					PNP		872C-MM1CP7-E2	872C-MM1CP7-P3
Recommended Standard QD Cordset (-2 = 2m (6.5ft))								889P-F3AB-2

Dimensions—mm (inches)

Cable Style

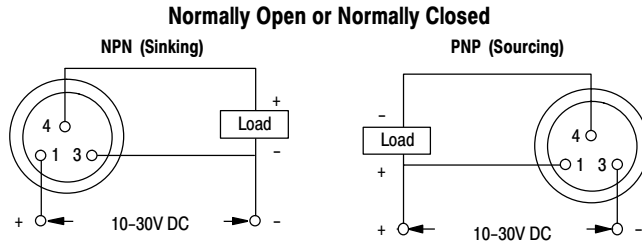
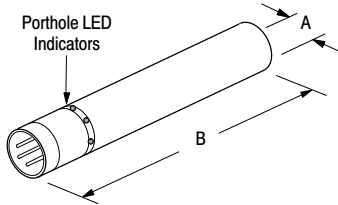


Wiring Diagram



Smooth Diameter	Thread Size	Shielded	mm (inches)	
			A	B
6.5	—	Y	6.5 (0.26)	33 (1.3)

Pico QD Style



Smooth Diameter	Thread Size	Shielded	mm (inches)	
			A	B
6.5	—	Y	6.5 (0.26)	49 (1.93)