

871ZT 3-Wire DC Weld Field Immune

PTFE Face/Threaded PTFE-Coated Brass Barrel



871ZT DC Micro
Quick-Disconnect Style
12, 18, 30mm

**Features**

- 3-wire operation
- 4-pin micro quick-disconnect
- 10–30V DC
- Weld field immunity
- Weld-slag resistant PTFE coated brass barrel and face
- Equal sensing for all metals
- Normally open output
- Reverse polarity, short circuit, overload, false pulse and transient noise protection
- CE marked for all applicable directives

Specifications

Load Current	≤200mA
Minimum Load Current	1mA
Leakage Current	<0.08mA
Operating Voltage	10–30V DC
Voltage Drop	≤2.5V
Repeatability	≤5% typical
Hysteresis	≤10% typical
False Pulse Protection	Incorporated
Transient Noise Protection	Incorporated
Reverse Polarity Protection	Incorporated
Short Circuit Protection	Incorporated
Overload Protection	Incorporated
Weld Field Immunity	Up to 1260 Gauss (M5)
Approvals	CE marked for all applicable directives
Enclosure	IP67 (IEC 529) PTFE coated brass barrel
Connections	Quick-Disconnect: 4-pin micro style
LED	360° LED visibility; Orange: Target Present
Operating Temperature	–25°C to +70°C (–13°F to +158°F)
Shock	30g, 11ms
Vibration	55Hz, 1mm amplitude, 3 planes

Correction Factors

Target Material	Correction Factor
Steel	1.0
Stainless Steel	0.9–1.1
Brass	0.9–1.1
Aluminum	0.9–1.1
Copper	0.9–1.1

871ZT 3-Wire DC Weld Field Immune

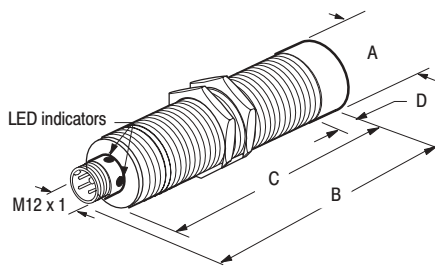
PTFE Face/Threaded PTFE-Coated Brass Barrel

Product Selection

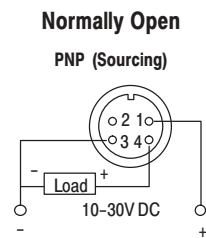
Barrel Diameter	Nominal Sensing Distance—mm (in)	Shielded	Outout Configuration		Switching Frequency Hz	Catalog Number
						Micro QD Style
12mm	3 (0.12)	Y	N.O.	PNP	2000	871ZT-MB3NP12-D4
	8 (0.31)	N			2000	871ZT-NB8NP12-D4
18mm	5 (0.20)	Y			2500	871ZT-MB5NP18-D4
	12 (0.47)	N			2500	871ZT-NB12NP18-D4
30mm	10 (0.39)	Y			600	871ZT-MB10NP30-D4
	20 (0.79)	N			1000	871ZT-NB20NP30-D4
Recommended Standard QD Cordset (-6F = 1.8m (6ft), -2 = 2m (6.5ft))						889D-F4WE-2

Dimensions—mm (inches)

Micro QD Style



Wiring Diagram



Thread Size	Shielded	A	B	C	D
M12x1	Y	12 (0.47)	65 (2.56)	50 (1.97)	—
	N	12 (0.47)	65 (2.56)	40 (1.58)	10 (0.39)
M18x1	Y	18 (0.71)	65 (2.56)	50 (1.97)	—
	N	18 (0.71)	65 (2.56)	40.5 (1.59)	10 (0.39)
M30x1	Y	30 (1.18)	65 (2.56)	50.5 (1.99)	—
	N	30 (1.18)	65 (2.56)	37.5 (1.48)	13 (.51)