

871F 3-Wire DC**Block Style***871F DC Cable Style**871F DC Micro
Quick-Disconnect Style***Features**

- 3-wire operation
- 3-conductor or 4-pin connection
- 10...30V DC
- Normally open output
- False pulse, transient noise, reverse polarity, short circuit and overload protection
- CE Marked for all applicable directives

Specifications

Load Current	≤400 mA
Minimum Load Current	1 mA
Leakage Current	≤10 μA
Operating Voltage	10...30V DC
Voltage Drop	≤2.4V
Repeatability	≤10%
Hysteresis	≤15% typical
False Pulse Protection	Incorporated
Transient Noise Protection	Incorporated
Reverse Polarity Protection	Incorporated
Short Circuit Protection	Incorporated
Overload Protection	Incorporated
Certifications	CE Marked for all applicable directives
Enclosure	NEMA 1, 2, 3, 4, 12, 13, IP67 (IEC529) Aluminum Body
Connections	Cable: 2 m (6.5 ft) length 3-conductor PVC Quick-Disconnect: 4-pin micro style
LED	Orange: Output Energized
Operating Temperature [C (F)]	-25...+70° (-13...+158°)
Shock	30 g, 11 ms
Vibration	55 Hz, 1 mm amplitude, 3 planes

Correction Factors

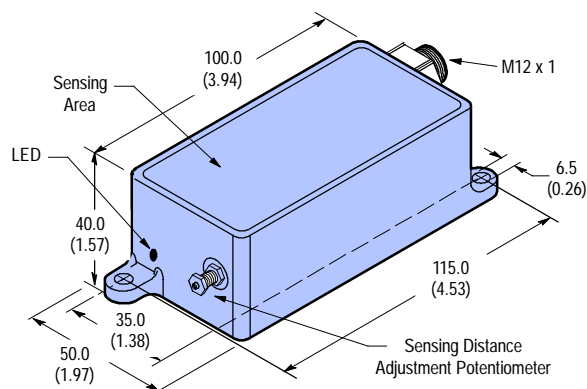
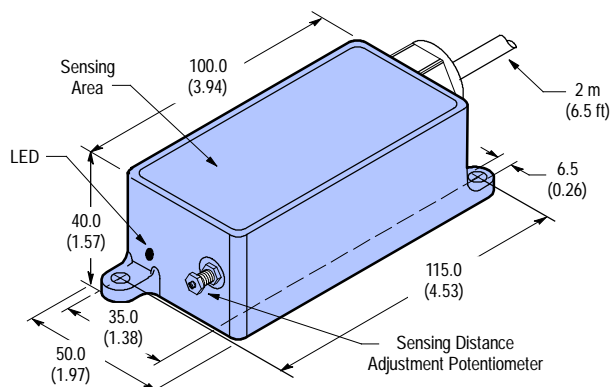
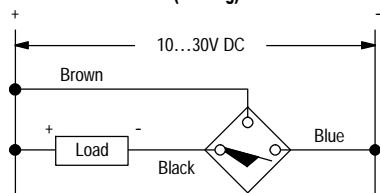
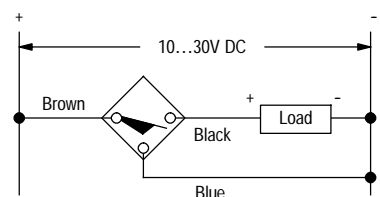
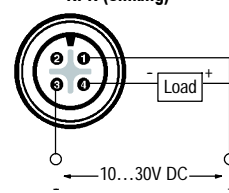
Target Material	Correction Factor
Steel	1.0
Stainless Steel	0.7...0.8
Brass	0.4...0.5
Aluminum	0.3...0.4
Copper	0.2...0.3

Product Selection

Head Size	Nominal Sensing Distance [mm (in.)]	Shielded	Output Configuration		Switching Frequency [Hz]	Cat. No.	
						Cable Style	Micro QD Style
50	70 (2.76)	N	N.O.	NPN	300	871F-D70NN50-E2	871F-D70NN50-D4
				PNP		871F-D70NP50-E2	871F-D70NP50-D4
Recommended Standard QD Cordset (-2 = 2 m (6.5 ft))							889D-F4AC-2

QD Cordsets and Accessories

Description	Page Number
Other Cordsets Available	8-2
Terminal Chambers	8-2

Approximate Dimensions [mm (in.)]**Wiring Diagrams****Cable Style****Normally Open****NPN (Sinking)****PNP (Sourcing)****Micro QD Style****Normally Open****NPN (Sinking)****PNP (Sourcing)**