Flat Pack Style



871F DC Mini Quick-Disconnect Style



871F DC Micro Quick-Disconnect Style

Features

- 4-wire operation
- 4-pin or 4-terminal connection
- 10...30V DC
- Complementary normally open and normally closed outputs
- False pulse, transient noise, reverse polarity, short circuit, and overload protection
- cULus Listed and CE Marked for all applicable directives
- DIN Rail mounting option on quickdisconnect and cable models

Specifications

Load Current, Max.	200 mA				
Load Current, Min.	1 mA				
Leakage Current	≤10 μA				
Operating Voltage	1030V DC				
Voltage Drop	≤2.5V				
Repeatability	≤2%				
Hysteresis	≤5% typical				
Protection Type	False pulse, transient noise, reverse polarity, short circuit, overload				
Certifications	cULus Listed and CE Marked for all applicable all directives				
Enclosure Type Rating	NEMA 1, 2, 3, 4, 6, 6P, 12 and 13; IP67 (IEC529), 1200 psi (8270 kPa) washdown; micro connector versions also meet IP69K (IEC529)				
Connection Type	Quick-Disconnect: 4-pin mini, 4-pin micro; Conduit Opening: 1/2 - 14NPT thread, PG 13.5 thread				
LED	Green: Power, 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	0.70.8		
Brass	0.40.5		
Aluminum	0.30.4		
Copper	0.20.3		



Product Selection

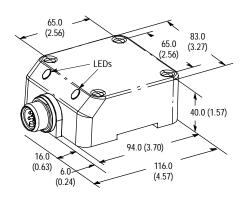
	Nominal					Cat. No.			
Head Size			Switching Frequency						
[mm (in.)]	(in.)]	Shielded		uration	[Hz]	Mini QD Style	Micro QD Style	Conduit 1/2 NPT	Conduit PG13.5
83 (3.27)	50 (1.97) *	Yes	N.O. and N.C.	PNP	100	871F-P50BP80-N4	871F-P50BP80-D4	871F-P50BP80-T4	871F-P50BP80-Q4
				NPN		871F-P50BN80-N4	871F-P50BN80-D4	871F-P50BN80-T4	871F-P50BN80-Q4
	65 (2.56)	No		PNP		871F-N65BP80-N4	871F-N65BP80-D4	871F-N65BP80-T4	871F-N65BP80-Q4
				NPN		871F-N65BN80-N4	871F-N65BN80-D4	871F-N65BN80-T4	871F-N65BN80-Q4
Recommend	Recommended Standard QD Cordset (-6F = 1.8 m (6 ft), -2 = 2 m (6.5 ft))					889N-F4AFC-6F	889D-F4AC-2	_	_

[★] Must be fully embedded in mild steel to achieve maximum sensing distance.



Approximate Dimensions [mm (in.)]

Mini QD Style



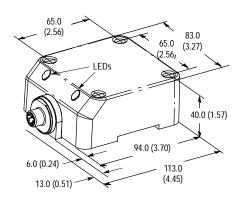
Wiring Diagram

Complementary Normally Open and Normally Closed Outputs

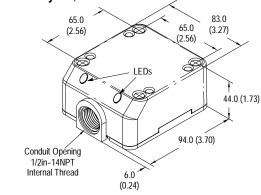
PNP (Sourcing) - N.C. + - N.O. + - N.O. + - Load - N.O. + -

Approximate Dimensions [mm (in.)]

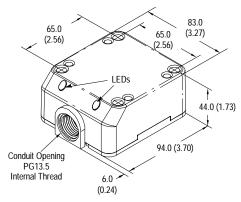
Micro QD Style



Conduit Style 1/2in NPT



Conduit Style PG13.5

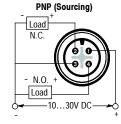


QD Cordsets and Accessories

Description	Page Number		
Other Cordsets Available	8-2		

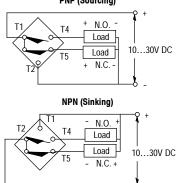
Wiring Diagram

Complementary Normally Open and Normally Closed



NPN (Sinking) N.C. + Load N.O. 10...30V DC

Complementary Normally Open and Normally Closed Outputs PNP (Sourcing)



Complementary Normally Open and Normally Closed Outputs

