

Inductive Proximity Sensors 872C/872CT WorldProx™ 3-Wire DC

Plastic Face/ Threaded Nickel-Plated Brass or Stainless Steel Barrel

Product Selection

Barrel Diameter [mm]	Nominal Sensing Distance [mm (in.)]	Shielded	Output Configuration		Switching Frequency [Hz]	Cat. No.			
						Cable Style	Mini QD Style	Micro QD Style	Pico QD Style
6.5	2 (0.08)	Yes	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
8	2 (0.08)	Yes	N.O.	NPN	2500	★ 872C-D2NN8-E2	—	★ 872C-D2NN8-D4	★ 872C-D2NN8-P3
				PNP		★ 872C-D2NP8-E2	—	★ 872C-D2NP8-D4	★ 872C-D2NP8-P3
			N.C.	NPN		★ 872C-D2CN8-E2	—	★ 872C-D2CN8-D4	★ 872C-D2CN8-P3
				PNP		★ 872C-D2CP8-E2	—	★ 872C-D2CP8-D4	★ 872C-D2CP8-P3
	3 (0.12)	No	N.O.	NPN		★ 872C-D3NN8-E2	—	★ 872C-D3NN8-D4	★ 872C-D3NN8-P3
				PNP		★ 872C-D3NP8-E2	—	★ 872C-D3NP8-D4	★ 872C-D3NP8-P3
			N.C.	NPN		★ 872C-D3CN8-E2	—	★ 872C-D3CN8-D4	★ 872C-D3CN8-P3
				PNP		★ 872C-D3CP8-E2	—	★ 872C-D3CP8-D4	★ 872C-D3CP8-P3
12	3 (0.12)	Yes	N.O.	NPN	1300	★ 872C-D3NN12-E2	—	★ 872C-D3NN12-D4	★ 872C-D3NN12-P3
				PNP		★ 872C-D3NP12-E2	—	★ 872C-D3NP12-D4	★ 872C-D3NP12-P3
			N.C.	NPN		★ 872C-D3CN12-E2	—	★ 872C-D3CN12-D4	★ 872C-D3CN12-P3
				PNP		★ 872C-D3CP12-E2	—	★ 872C-D3CP12-D4	★ 872C-D3CP12-P3
	4 (0.16)	No	N.O.	NPN		★ 872C-D4NN12-E2	—	★ 872C-D4NN12-D4	★ 872C-D4NN12-P3
				PNP		★ 872C-D4NP12-E2	—	★ 872C-D4NP12-D4	★ 872C-D4NP12-P3
			N.C.	NPN		★ 872C-D4CN12-E2	—	★ 872C-D4CN12-D4	★ 872C-D4CN12-P3
				PNP		★ 872C-D4CP12-E2	—	★ 872C-D4CP12-D4	★ 872C-D4CP12-P3
18	5 (0.2)	Yes	N.O.	NPN	1500	★ 872C-D5NN18-E2	★ 872C-D5NN18-N4	★ 872C-D5NN18-D4	★ 872C-D5NN18-P3
				PNP		★ 872C-D5NP18-E2	★ 872C-D5NP18-N4	★ 872C-D5NP18-D4	★ 872C-D5NP18-P3
			N.C.	NPN		★ 872C-D5CN18-E2	★ 872C-D5CP18-N4	★ 872C-D5CN18-D4	★ 872C-D5CN18-P3
				PNP		★ 872C-D5CP18-E2	★ 872C-D5CP18-N4	★ 872C-D5CP18-D4	★ 872C-D5CP18-P3
	8 (0.31)	No	N.O.	NPN		★ 872C-D8NN18-E2	★ 872C-D8NN18-N4	★ 872C-D8NN18-D4	★ 872C-D8NN18-P3
				PNP		★ 872C-D8NP18-E2	★ 872C-D8NP18-N4	★ 872C-D8NP18-D4	★ 872C-D8NP18-P3
			N.C.	NPN		★ 872C-D8CN18-E2	★ 872C-D8CN18-N4	★ 872C-D8CN18-D4	★ 872C-D8CN18-P3
				PNP		★ 872C-D8CP18-E2	★ 872C-D8CP18-N4	★ 872C-D8CP18-D4	★ 872C-D8CP18-P3
30	10 (0.39)	Yes	N.O.	NPN	1000	★ 872C-D10NN30-E2	★ 872C-D10NN30-N4	★ 872C-D10NN30-D4	—
				PNP		★ 872C-D10NP30-E2	★ 872C-D10NP30-N4	★ 872C-D10NP30-D4	—
			N.C.	NPN		★ 872C-D10CN30-E2	★ 872C-D10CN30-N4	★ 872C-D10CN30-D4	—
				PNP		★ 872C-D10CP30-E2	★ 872C-D10CP30-N4	★ 872C-D10CP30-D4	—
	15 (0.59)	No	N.O.	NPN		★ 872C-D15NN30-E2	★ 872C-D15NN30-N4	★ 872C-D15NN30-D4	—
				PNP		★ 872C-D15NP30-E2	★ 872C-D15NP30-N4	★ 872C-D15NP30-D4	—
			N.C.	NPN		★ 872C-D15CN30-E2	★ 872C-D15CN30-N4	★ 872C-D15CN30-D4	—
				PNP		★ 872C-D15CP30-E2	★ 872C-D15CP30-N4	★ 872C-D15CP30-D4	—
Recommended mating cable, 2 m (6.5 ft). See the <i>On-Machine Connectivity</i> catalog for details and additional lengths.						—	889N-F4AFC-6F	889D-F4AFC-2	889P-F3AB-2

★ Cat. no. listed is for a standard nickel-plated brass barrel. For a stainless steel barrel, add a **T** to the cat. no. **Example:** Cat. No. 872C-D4NN12-E2 becomes Cat. No. 872CT-D4NN12-E2.

Note: Preferred availability designation in table above applies to nickel-plated brass model only.

Cable Options (8, 12, 18, and 30 mm sensors only)

E2 at the end of cat. no. designates PVC cable 2 m in length. Replace **E2** with **E5** or **E10** for 5 or 10 m length.

For polyurethane cable replace **E2** with **J2**, **J5**, or **J10** for 2, 5, or 10 m length.

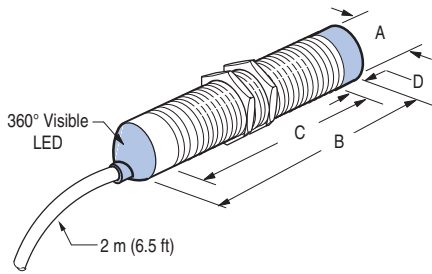
For PVC pigtail cable with integral micro QD style connector (4-pin DC male) replace **E2** with **FD02**, **FD05**, or **FD10** for 0.2, 0.5, or 1.0 m length.

Cable Length	PVC	PUR
2 m	E2	J2
5 m	E5	J5
10 m	E10	J10

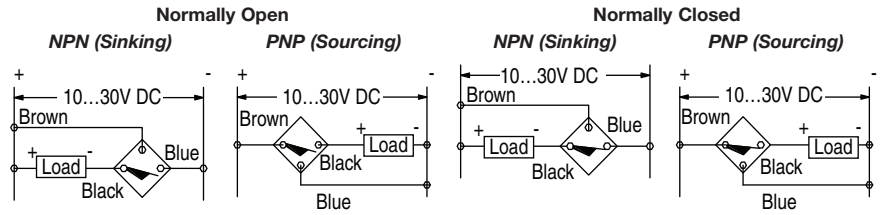
Pigtail Cable Length	PVC
0.2 m	FD02
0.5 m	FD05
1.0 m	FD10

Inductive Proximity Sensors
872C/872CT WorldProx™ 3-Wire DC
 Plastic Face/ Threaded Nickel-Plated Brass or Stainless Steel Barrel

Approximate Dimensions—mm (in)
 Cable Style

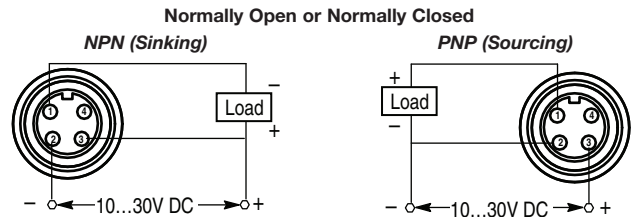
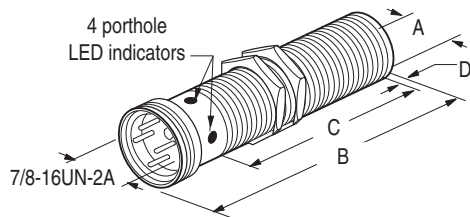


Wiring Diagrams



Thread Size	Barrel Type	Smooth Diameter	Shielded	mm (inches)			
				A	B (max)	C (min)	D (max)
—	Nickel-plated brass	6.5	Y	6.50 (0.26)	33.0 (1.30)	—	—
M8 x 1	Nickel-plated brass and stainless steel	—	Y	8.00 (0.31)	32.8 (1.29)	30.2 (1.19)	—
N			36.8 (1.45)		4.10 (0.16)		
M12 x 1		—	Y	12.0 (0.47)	50.8 (2.00)	46.7 (1.84)	—
N			58.9 (2.32)		8.10 (0.32)		
M18 x 1		—	Y	18.0 (0.71)	50.8 (2.00)	46.7 (1.84)	—
N			63.0 (2.48)		12.2 (0.48)		
M30 x 1		—	Y	30.0 (1.18)	50.8 (2.00)	47.7 (1.88)	—
N			63.0 (2.48)		12.2 (0.48)		

Mini QD Style



Thread Size	Barrel Type	Shielded	mm (inches)			
			A	B (max)	C (min)	D (max)
M18 x 1	Nickel-plated brass and stainless steel	Y	18.0 (0.71)	63.5 (2.50)	35.1 (1.38)	—
		N		75.7 (2.98)		12.2 (0.48)
M30 X 1.5	Nickel-plated brass	Y	30.0 (1.18)	63.5 (2.50)	38.1 (1.50)	—
		N		75.7 (2.98)		12.2 (0.48)
	Stainless steel	Y		64.3 (2.53)	47.8 (1.88)	—
		N		76.5 (3.01)		12.2 (0.48)

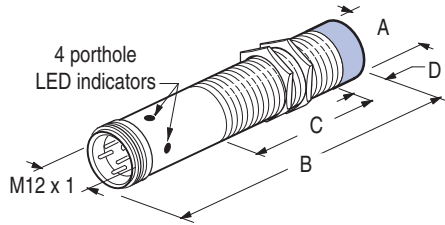


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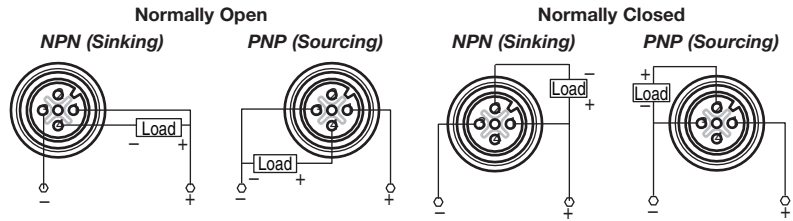
Plastic Face/ Threaded Nickel-Plated Brass or Stainless Steel Barrel

Approximate Dimensions—mm (in)

Micro QD Style

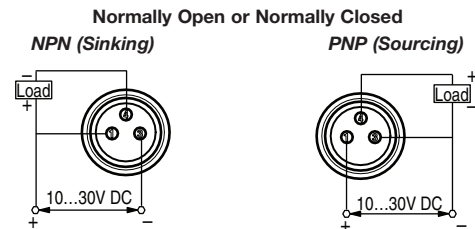
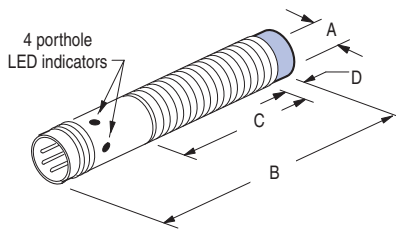


Wiring Diagrams



Thread Size	Barrel Type	Shielded	mm (inches)			
			A	B (max)	C (min)	D (max)
M8 x 1	Nickel-plated brass and stainless steel	Y	8.00 (0.31)	58.7 (2.31)	27.7 (1.09)	—
		N		62.7 (2.47)		4.00 (0.16)
M12 x 1		Y	12.0 (0.47)	64.3 (2.53)	38.1 (1.50)	—
		N		72.4 (2.85)		8.10 (0.32)
M18 x 1		Y	18.0 (0.71)	64.3 (2.53)	38.1 (1.50)	—
		N		76.5 (3.01)		12.2 (0.48)
M30 X 1.5		Y	30.0 (1.18)	64.3 (2.53)	47.75 (1.88)	—
		N		76.5 (3.01)		12.2 (0.48)

Pico QD Style



Thread Size	Barrel Type	Smooth Diameter	Shielded	mm (inches)			
				A	B (max)	C (min)	D (max)
—	Nickel-plated brass	6.5	Y	6.50 (0.26)	49.0 (1.93)	—	—
M8 x 1	Nickel-plated brass and stainless steel	—	Y	8.00 (0.31)	49.5 (1.95)	34.0 (1.34)	—
			N		53.6 (2.11)		4.10 (0.16)
M12 x 1		—	Y	12.0 (0.47)	63.5 (2.50)	47.5 (1.87)	—
			N		71.6 (2.82)		8.10 (0.32)
M18 x 1		—	Y	18.0 (0.71)	63.5 (2.50)	47.5 (1.87)	—
			N		75.7 (2.98)		12.2 (0.48)