

Inductive Proximity Sensors

872C/872CT WorldProx™ Short Barrel Extended Sensing 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★
8	3 (0.12)	Yes	N.O.	NPN	2500	872C-MH3NN8-P3	—	872C-MH3NN8-D4	872C-MH3NN8-P3
				PNP		872C-MH3NP8-E2	—	872C-MH3NP8-D4	872C-MH3NP8-P3
			N.C.	NPN		872C-MH3CN8-E2	—	872C-MH3CN8-D4	872C-MH3CN8-P3
				PNP		872C-MH3CP8-E2	—	872C-MH3CP8-D4	872C-MH3CP8-P3
	4 (0.16)	No	N.O.	NPN		872C-NH4NN8-E2	—	872C-NH4NN8-D4	872C-NH4NN8-P3
				PNP		872C-NH4NP8-E2	—	872C-NH4NP8-D4	872C-NH4NP8-P3
			N.C.	NPN		872C-NH4CN8-E2	—	872C-NH4CN8-D4	872C-NH4CN8-P3
				PNP		872C-NH4CP8-E2	—	872C-NH4CP8-D4	872C-NH4CP8-P3
12	4 (0.16)	Yes	N.O.	NPN	1300	872C-MH4NN12-E2	—	872C-MH4NN12-D4	872C-MH4NN12-P3
				PNP		872C-MH4NP12-E2	—	872C-MH4NP12-D4	872C-MH4NP12-P3
			N.C.	NPN		872C-MH4CN12-E2	—	872C-MH4CN12-D4	872C-MH4CN12-P3
				PNP		872C-MH4CP12-E2	—	872C-MH4CP12-D4	872C-MH4CP12-P3
	8 (0.32)	No	N.O.	NPN		872C-NH8NN12-E2	—	872C-NH8NN12-D4	872C-NH8NN12-P3
				PNP		872C-NH8NP12-E2	—	872C-NH8NP12-D4	872C-NH8NP12-P3
			N.C.	NPN		872C-NH8CN12-E2	—	872C-NH8CN12-D4	872C-NH8CN12-P3
				PNP		872C-NH8CP12-E2	—	872C-NH8CP12-D4	872C-NH8CP12-P3
18	8 (0.32)	Yes	N.O.	NPN	1500	872C-MH8NN18-E2	872C-MH8NN18-N4	872C-MH8NN18-D4	872C-MH8NN18-P3
				PNP		872C-MH8NP18-E2	872C-MH8NP18-N4	872C-MH8NP18-D4	872C-MH8NP18-P3
			N.C.	NPN		872C-MH8CN18-E2	872C-MH8CN18-N4	872C-MH8CN18-D4	872C-MH8CN18-P3
				PNP		872C-MH8CP18-E2	872C-MH8CP18-N4	872C-MH8CP18-D4	872C-MH8CP18-P3
	12 (0.47)	No	N.O.	NPN		872C-NH12NN18-E2	872C-NH12NN18-N4	872C-NH12NN18-D4	872C-NH12NN18-P3
				PNP		872C-NH12NP18-E2	872C-NH12NP18-N4	872C-NH12NP18-D4	872C-NH12NP18-P3
			N.C.	NPN		872C-NH12CN18-E2	872C-NH12CN18-N4	872C-NH12CN18-D4	872C-NH12CN18-P3
				PNP		872C-NH12CP18-E2	872C-NH12CP18-N4	872C-NH12CP18-D4	872C-NH12CP18-P3
30	15 (0.59)	Yes	N.O.	NPN	1000	872C-MH15NN30-E2	872C-MH15NN30-N4	872C-MH15NN30-D4	—
				PNP		872C-MH15NP30-E2	872C-MH15NP30-N4	872C-MH15NP30-D4	—
			N.C.	NPN		872C-MH15CN30-E2	872C-MH15CN30-N4	872C-MH15CN30-D4	—
				PNP		872C-MH15CP30-E2	872C-MH15CP30-N4	872C-MH15CP30-D4	—
	20 (0.79)	No	N.O.	NPN		872C-NH20NN30-E2	872C-NH20NN30-N4	872C-NH20NN30-D4	—
				PNP		872C-NH20NP30-E2	872C-NH20NP30-N4	872C-NH20NP30-D4	—
			N.C.	NPN		872C-NH20CN30-E2	872C-NH20CN30-N4	872C-NH20CN30-D4	—
				PNP		872C-NH20CP30-E2	872C-NH20CP30-N4	872C-NH20CP30-D4	—
Recommended mating cable, 2 m (6.5 ft). (See <i>On-Machine Connectivity</i> catalog for details and additional lengths).						—	889N-F4AFC-6F	889D-F4AC-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-MH3NN8-P3 becomes Cat. No. 872CT-MH3NN8-P3.

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

Cable Options

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



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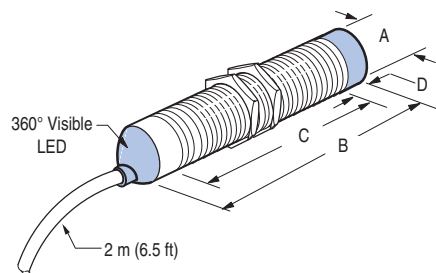


872C/872CT WorldProx™ Short Barrel Extended Sensing 3-Wire DC

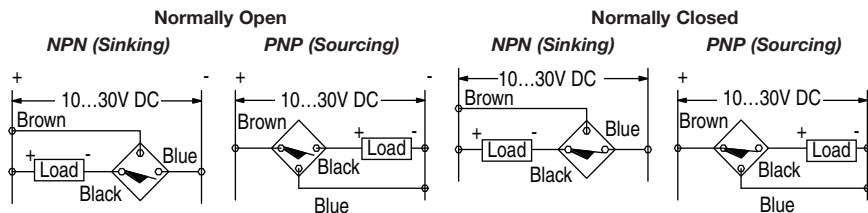
Plastic Face/ Threaded Nickel-Plated Brass or Stainless Steel Barrel

Approximate Dimensions—mm (in)

Cable Style

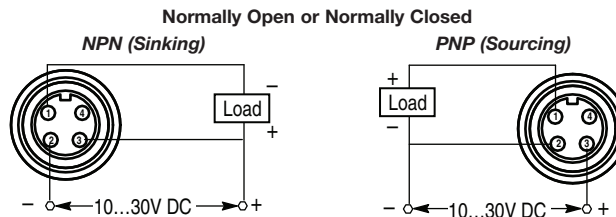
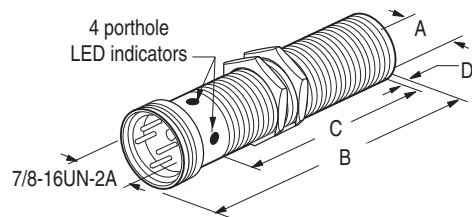


Wiring Diagrams



Thread Size	Barrel Type	Shielded	mm (inches)			
			A	B (max)	C (min)	D (max)
M8 x 1	Nickel-plated brass and stainless steel	Y	8.00 (0.31)	26.7 (1.05)	24.1 (0.95)	—
		N		30.7 (1.21)		4.10 (0.16)
M12 x 1		Y	12.0 (0.47)	34.8 (1.37)	31.8 (1.25)	—
		N		42.9 (1.69)		8.10 (0.32)
M18 x 1		Y	18.0 (0.71)	34.8 (1.37)		—
		N		47.0 (1.85)		12.2 (0.48)
M30 x 1	Nickel-plated brass	Y	30.0 (1.18)	34.8 (1.37)		—
		N		47.0 (1.85)		12.2 (0.48)
	Stainless steel	Y		37.3 (1.47)	34.3 (1.35)	—
		N		49.5 (1.95)		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)	47.5 (1.87)	24.2 (0.95)	—
		N		59.7 (2.35)		12.2 (0.48)
M30 X 1.5	Nickel-plated brass	Y	30.0 (1.18)	47.5 (1.87)	26.4 (1.04)	—
		N		59.7 (2.35)		12.2 (0.48)
	Stainless steel	Y		50.8 (2.00)	34.3 (1.35)	—
		N		63.0 (2.48)		12.2 (0.48)

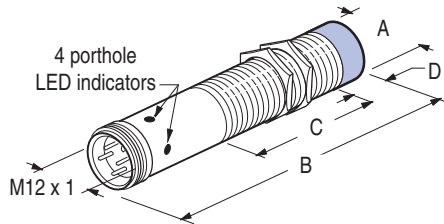
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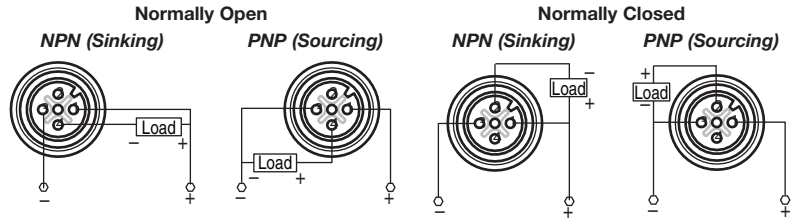
Plastic Face/ Threaded Nickel-Plated Brass or Stainless Steel Barrel

Approximate Dimensions—mm (in)

Micro QD Style

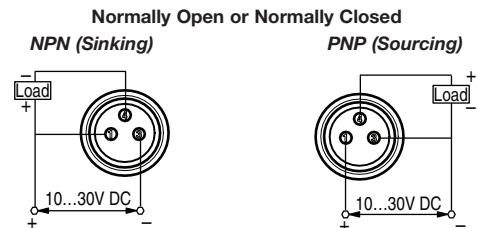
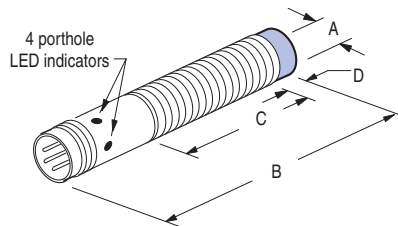


Wiring Diagrams



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)	45.2 (1.78)	20.1 (0.79)	—
		N		49.3 (1.94)		4.10 (0.16)
M12 x 1		Y	12.0 (0.47)	48.3 (1.90)	27.4 (1.08)	—
		N		56.4 (2.22)		8.10 (0.32)
M18 x 1	Nickel-plated brass	Y	18.0 (0.71)	49.5 (1.95)	26.4 (1.04)	—
		N		61.7 (2.43)		12.2 (0.48)
	Stainless steel	Y		48.3 (1.90)	31.8 (1.25)	—
		N		60.5 (2.38)		12.2 (0.48)
M30 X 1.5	Nickel-plated brass and stainless steel	Y	30.0 (1.18)	50.8 (2.00)	31.8 (1.25)	—
		N		63.2 (2.49)		12.2 (0.48)

Pico QD Style



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)	44.5 (1.75)	29.0 (1.14)	—
		N		48.5 (1.91)		4.10 (0.16)
M12 x 1		Y	12.0 (0.47)	45.2 (1.78)	29.2 (1.15)	—
N		53.3 (2.10)		8.10 (0.32)		
M18 x 1		Y	18.0 (0.71)	47.5 (1.87)	31.5 (1.24)	—
		N		59.7 (2.35)		12.2 (0.48)



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