

872C Extended Range WorldProx™ AC Sensors

New 12 mm, 18 mm, and 30 mm diameter units with sensing ranges up to 30 mm

Rockwell Automation continues to introduce new Allen-Bradley sensing products that help make your applications easier while addressing the market's ever changing needs. From proximity sensors, limit switches, and photoelectric sensors, to condition sensors, encoders, error proofing solutions and connectivity products, Rockwell Automation is your source for all your product and consolidation needs.

The latest addition to our industry leading WorldProx family of general purpose sensors is the 872C AC Extended Range Sensors. Available in 12, 18, and 30 mm diameter housings with sensing ranges up to 30 mm, these sensors are an excellent choice for a wide range of applications and environments.

Extended Range

Designed to sense ferrous and nonferrous metal objects without contact, these new extended range units provide even greater margin of error. The primary reason sensors fail over time is due to repeated contact with the sensing target. However, with an extended sensing range, it is possible to move the sensor further away from the target, reducing the likelihood of contact.

Allen-Bradley WorldProx proximity sensors are known throughout the industry for their proven performance in demanding applications and these new AC extended range are no exception. Similar to the other sensors in the WorldProx family, the new AC extended range models are designed in a self-contained nickel-plated brass barrel with a plastic face. Equipped with the full range of electrical and mechanical protection — false pulse, overload protection and transient noise — these new WorldProx sensors are a sound choice for a wide range of environments. In addition, they meet enclosure standards NEMA 1, 2, 3, 4, 12, 13 and IP67 (IEC 529).

For application flexibility, these new WorldProx 872C AC sensors are available with 2 m PUR cable, 3-pin mini QD or 3-pin micro QD connection options with normally-open or normally-closed outputs.



30 mm, 872C AC Extended Range Sensor

Features:

- 2-wire operation
- 2 meter 3-conductor PUR cable or 3-pin mini or micro QD connectors
- 20...250V AC
- Normally-open or normally-closed versions
- Shielded up to 15 mm sensing distance
- Nonshielded up to 30 mm sensing distance
- Nickel-plated brass barrel with plastic face
- IP67 enclosure rating
- False pulse, transient noise, and overload protection
- CE Marked for all applicable directives

Benefits

- Extended sensing range allows users to place sensor further away from a target, reducing the risk of sensor failure due to impact

LISTEN.
THINK.
SOLVE.®

872C WorldProx™ Extended Sensing 2-Wire AC

Product Selection

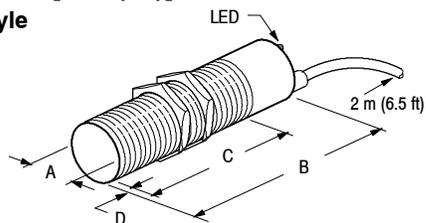
Barrel Diameter	Nominal Sensing Distance [mm (in.)]	Shielded	Output Configuration	Switching Frequency [Hz]	Cat. No.		
					2 m Cable Style	Mini QD Style	Micro QD Style
12 mm	4 (0.16)	Y	N.O.	20	872C-F4N12-A2	—	872C-F4N12-R3
			N.C.		872C-F4C12-A2	—	872C-F4C12-R3
	8 (0.31)	N	N.O.		872C-G8N12-A2	—	872C-G8N12-R3
			N.C.		872C-G8C12-A2	—	872C-G8C12-R3
18 mm	8 (0.31)	Y	N.O.		872C-F8N18-A2	872C-F8N18-N3	872C-F8N18-R3
			N.C.		872C-F8C18-A2	872C-F8C18-N3	872C-F8C18-R3
	12 (0.47)	N	N.O.		872C-G12N18-A2	872C-G12N18-N3	872C-G12N18-R3
			N.C.		872C-G12C18-A2	872C-G12C18-N3	872C-G12C18-R3
30 mm	15 (0.59)	Y	N.O.	872C-F15N30-A2	872C-F15N30-N3	872C-F15N30-R3	
			N.C.	872C-F15C30-A2	872C-F15C30-N3	872C-F15C30-R3	
	30 (1.18)	N	N.O.	872C-G30N30-A2	872C-G30N30-N3	872C-G30N30-R3	
			N.C.	872C-G30C30-A2	872C-G30C30-N3	872C-G30C30-R3	

Correction Factors

Target Material	Correction Factor	Target Material	Correction Factor	Target Material	Correction Factor
Steel	1.0	Brass	0.5	Copper	0.4
Stainless Steel	0.9	Aluminum	0.45		

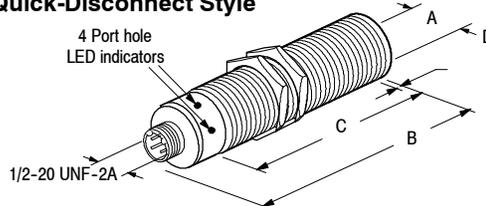
Dimensions [mm (in.)]

Cable Style



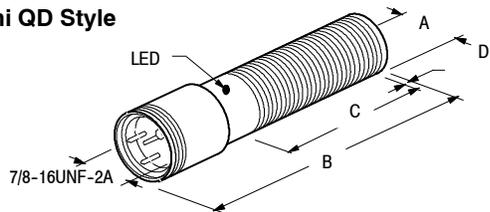
Shielded	[mm (in.)]			
	A	B	C	D
Y	12.0 (0.47)	70.0 (2.76)	60.0 (2.36)	—
N			54.0 (2.13)	6.0 (0.24)
Y	18.0 (0.71)	60.0 (2.36)	50.0 (1.96)	—
N			42.0 (1.65)	8.0 (0.31)
Y	30.0 (1.18)	60.0 (2.36)	50.0 (1.96)	—
N			38.0 (1.50)	12.0 (0.47)

Micro Quick-Disconnect Style



Shielded	[mm (in.)]			
	A	B	C	D
Y	12.0 (0.47)	75.0 (2.95)	45.0 (1.77)	—
N			40.0 (1.57)	6.0 (0.24)
Y	18.0 (0.71)	80.0 (3.15)	60.0 (2.36)	—
N			52.0 (2.05)	8.0 (0.31)
Y	30.0 (1.18)	80.0 (3.15)	50.0 (1.96)	—
N			38.0 (1.50)	12.0 (0.47)

Mini QD Style



Shielded	[mm (in.)]			
	A	B	C	D
Y	18.0 (0.71)	91.0 (3.58)	52.0 (2.05)	—
N			44.0 (1.73)	8.0 (0.31)
Y	30.0 (1.18)	91.0 (3.58)	52.0 (2.25)	—
N			40.0 (1.57)	12.0 (0.47)

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