

873M General Purpose Ultrasonic Sensor



Offering multiple solutions for detecting challenging targets

Features

- Nickel-plated brass 18 mm cylindrical or right-angle threaded barrel provides ease of mounting and reduces installation time
- Analog model's feature 0...10 VDC or 4...20 mA
- Discrete (PNP) models feature normally-open/normally-closed functions
- Window teaching allows sensing range to be defined inside a user-taught sensing area for both discrete and analog models. The user can achieve superior background suppression
- Teaching of the sensor can be accomplished by remote teach or optional programming cable
- Bright LEDs allow the user to monitor power, output and margin from any direction – reducing time required for setup and troubleshooting

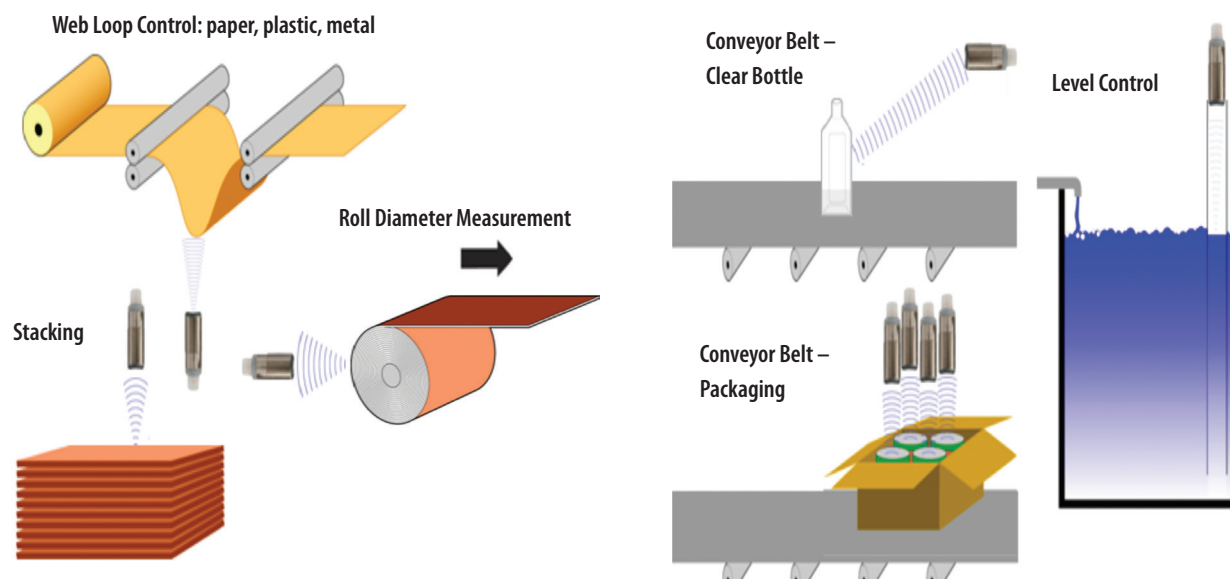


Rockwell Automation introduces the Allen-Bradley® 873M family of general purpose ultrasonic sensors. Featuring sensing distances between 30 and 800 mm, the 873M family complements our existing ultrasonic sensor offering by providing a more cost-effective solution for shorter range applications. These sensors are excellent for standard packaging and assembly applications, but are also ideal for sensing many of the targets that can be challenging for photoelectric sensors, such as clear, shiny or non-reflective objects.

The 873M offers straight or right-angle sensing face options, providing enhanced flexibility for areas with limited space. These compact sensors features a 18 mm barrel with length of 40 mm for straight barrel models and 50.2 mm for right angle models. Plus, the 873M offers higher switching speeds than other ultrasonic sensors in the portfolio and features an IP67 rating for harsh-duty environments. This family is available with discrete outputs for on/off applications or analog outputs for distance feedback.

LISTEN.
THINK.
SOLVE.®

Ultrasonic Applications



General Ordering Information

Product Selection

Sensing Distance [mm (in.)]	Sensing Direction	Switching Frequency [Hz]	Output Function	Output Type	Response Time	Cat. No.	
30...300 mm (1.18...11.8 in.) with 50...300 (1.97...11.8) teachable	Straight	13	PNP – Discrete	Complementary NO/NC	30 ms	873M-D18PO300-D4	
	Right Angle	N/A	Analog Current	4...20 mA		873M-D18RPO300-D4	
			Analog Voltage	0...10V DC		873M-D18RAI300-D4	
	Straight		Analog Current	4...20 mA		873M-D18RAV300-D4	
	Straight		Analog Voltage	0...10V DC		873M-D18AI300-D4	
	Straight		Analog Voltage	0...10V DC		873M-D18AV300-D4	
50...800 (1.97...31.5) with 70...800 (2.76...31.5) teachable	Straight	4	PNP – Discrete	Complementary NO/NC	100 ms	873M-D18PO800-D4	
	Right Angle	N/A	Analog Current	4...20 mA		873M-D18RPO800-D4	
			Analog Voltage	0...10V DC		873M-D18RAI800-D4	
	Straight		Analog Current	4...20 mA		873M-D18RAV800-D4	
	Straight		Analog Voltage	0...10V DC		873M-D18AI800-D4	
	Straight		Analog Voltage	0...10V DC		873M-D18AV800-D4	

Cordsets and Accessories

Description	Cat. No.
DC Micro QD Cordset, Straight, 4-pin, 2 m	889D-F4AC-2
Snap Clamp Mounting Bracket	871A-SCBP18
Swivel/Tilt Style Bracket	60-2649

Allen-Bradley and Rockwell Automation are trademarks of Rockwell Automation Inc.
Trademarks not belonging to Rockwell Automation are property of their respective companies.

www.rockwellautomation.com

Power, Control and Information Solutions Headquarters

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444
Europe/Middle East/Africa: Rockwell Automation NV, Pegasus Park, De Kleetlaan 12a, 1831 Diegem, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640
Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846