

Product Profile

Rugged New 871TM Proximity Sensors Offer Extended Range to Address Even More Demanding Industrial Applications

Allen-Bradley 871TM Toughness—with more than twice the sensing range

When Rockwell Automation introduced the Allen-Bradley 871TM all-stainless steel proximity sensor in the early 1990's, it quickly became—and remains—the benchmark sensing solution for heavy-duty industrial applications. Today, Rockwell Automation continues to set the standard and is proud to introduce new models offering the same durability and quality synonymous with the Allen-Bradley 871TM, but with more than twice the sensing range. The development of these new models is a direct response to the market's need for increased sensing distances in industrial-strength packages. It is also evidence of Rockwell Automation's commitment to providing solutions dedicated to customer success.

Enhanced Construction and Performance

The Extended Range 871TM family is the result of a unique collection of enhancements—electrical and mechanical—that make these new sensors the optimal solution for harsh duty applications.

The machined stainless steel housing combines an unusually thick sensing face with one-piece construction. The result is a sensor that is exceptionally resistant to abrasion and impervious to fluid ingress, a feature especially crucial in applications involving cutting fluids and chemical washdowns.

One of the most common causes of sensor failure is contact between the target and the sensor itself. While the thickness of the Extended Range 871TM's sensing face helps to prevent damage in the event of a collision between target and sensor, it is the increased sensing range that ultimately minimizes the potential for collisions by maximizing the distance between the two. The Extended Range 871TM boasts sensing ranges two to three times greater than standard models, and offers increased sensing distance for all metals, including copper and brass. Equal sensing distances for aluminum and steel further distinguish the 871TM Extended Range sensors from similar inductive sensor solutions.

Installation, setup and maintenance of these new sensors is simplified through the use of the multi-purpose 360° visible LED.



Available in 12, 18 and 30mm diameters in Shielded and Unshielded versions, Extended Range 871TM proximity sensors offer N.O, N.C, NPN and PNP output options with integral cable or Micro quick-disconnect.

Features

- 2-3X Standard sensing distances
- 12, 18 and 30mm diameter
- 4-Pin Micro QD or Cable connections
- One-piece machined stainless steel housing
- Equal sensing for steel and aluminum
- 360° LED visibility

Benefits of the Extended Range 871TM

- ❑ Extended sensing ranges allow greater distance between target and sensor face, helping to minimize the potential for damage attributed to target-to-sensor collisions.
- ❑ Alignment indication via 360° visible LED simplifies installation.
- ❑ Equal sensing distance for steel and aluminum allows for multiple target materials without requiring mounting adjustment

General Ordering Information For Our Most Popular Products



12mm, Shielded



18mm, Unshielded



30mm, Unshielded

871TM Extended Range Proximity Sensors

Configuration	S _n	Part Number
Micro QD, PNP, NO, Shielded, 12mm Diameter	6mm	871TM-M6NP12-D4
Micro QD, PNP, NO, Unshielded, 12mm Diameter	10mm	871TM-N10NP12-D4
Micro QD, PNP, NO, Shielded, 18mm Diameter	10mm	871TM-M10NP18-D4
Micro QD, PNP, NO, Unshielded, 18mm Diameter	20mm	871TM-N20NP18-D4
Micro QD, PNP, NO, Shielded, 30mm Diameter	20mm	871TM-M20NP30-D4
Micro QD, PNP, NO, Unshielded, 30mm Diameter	40mm	871TM-N40NP30-D4
Recommended Standard QD Cordset (-2 = 2m (6.5ft))		889D-F4AC-2

Note: Normally Closed, NPN and Cable models available – consult factory for details

www.rockwellautomation.com

www.ab.com/sensors

Corporate Headquarters

Rockwell Automation, 777 East Wisconsin Avenue, Suite 1400, Milwaukee, WI, 53202-5302 USA, Tel: (1) 414.212.5200, Fax: (1) 414.212.5201

Headquarters for Allen-Bradley Products, Rockwell Software Products and Global Manufacturing Solutions

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 SA/NV, Vorstlaan/Boulevard du Souverain 36-BP 3A/B, 1170 Brussels, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640

Asia Pacific: Rockwell Automation, 27/F Citicorp Centre, 18 Whitfield Road, Causeway Bay, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846

Headquarters for Dodge and Reliance Electric Products

Americas: Rockwell Automation, 6040 Ponders Court, Greenville, SC 29615-4617 USA, Tel: (1) 864.297.4800, Fax: (1) 864.281.2433

Europe/Middle East/Africa: Rockwell Automation, Brühlstraße 22, D-74834 Elztal-Dallau, Germany, Tel: (49) 6261 9410, Fax: (49) 6261 1774

Asia Pacific: Rockwell Automation, 55 Newton Road, #11-01/02 Revenue House, Singapore 307987, Tel: (65) 6356-9077, Fax: (65) 6356-9011