



871ZT ToughWeld™ 3-Wire DC Inductive Proximity Sensor

Allen-Bradley's latest addition to the ToughWeld family offers equal sensing distances for all metals and extended range for enhanced flexibility

Rockwell Automation is proud to introduce the most recent addition to ToughWeld family of products dedicated to solving harsh automotive welding applications. The 871ZT weld-field immune proximity sensor is evidence of Rockwell Automation's commitment to providing the newest technologies and most innovative solutions designed to address the changing needs of the automotive industry. Rockwell Automation continues to lead the industry with the ToughWeld family which offers a variety of packages, housing materials, and sensing capabilities. The development of the 871ZT PTFE-coated proximity sensor is a direct response to the automotive market's need for equal sensing capabilities and increased sensing distances in a weld field immune and weld slag resistant package.

Enhanced Performance and Lasting Durability

The Extended Range 871ZT ToughWeld product family combines a number of enhanced features which set it apart from other automotive based sensor solutions. The result of these features is improved performance as well as an extended sensor life expectancy.

Unshielded models offer extended sensing ranges two times greater industry standard models. This allows a greater distance between sensor and target, which reduces the risk of impact and ultimately, damage. The 871ZT also features equal sensing distances for all metals including stainless steel.



871ZT ToughWeld

The 871ZT ToughWeld 3-Wire DC Proximity Sensor with equal sensing and extended range

Weld splatter accumulation on the sensor face is one of the greatest causes of sensor malfunction in the automotive industry. Both the sensor barrel and face of the new 871ZT are completely PTFE coated, to resist the adhesion and accumulation of weld splatter thereby preventing a "lock on" condition and extending sensor function.

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

Features

- Equal Sensing for All Metals
- Extended Sensing Ranges for Unshielded Models
- 4-pin Micro QD Connection
- PTFE-coated Barrel and Face
- 360° LED Visibility
- 10-30V DC

Product Profile

**Rockwell
Automation**

Benefits of the 871ZT ToughWeld Family of Proximity Sensors

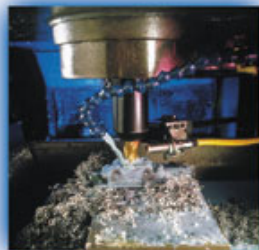
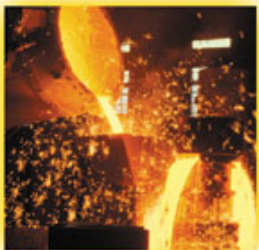


- ❑ Extended sensing ranges for unshielded models allow greater distance between target and sensor face, helping to minimize the potential for damage attributed to target-to-sensor collisions.
- ❑ PTFE-coated barrel and face resists the adhesion and accumulation of weld slag particles.
- ❑ Equal sensing distance for all metals allows for multiple target materials without requiring sensor position adjustment.
- ❑ Alignment indication via 360° visible LED simplifies installation.

General Ordering Information for Our Most Popular Products

871ZT ToughWeld 3-Wire DC Proximity Sensors

Configuration	S _n	Part Number
Micro QD, PNP, NO, Shielded, 12mm Diameter	3mm	871ZT-MB3NP12-D4
Micro QD, PNP, NO, Unshielded, 12mm Diameter	8mm	871ZT-NB8NP12-D4
Micro QD, PNP, NO, Shielded, 18mm Diameter	5mm	871ZT-MB5NP18-D4
Micro QD, PNP, NO, Unshielded, 18mm Diameter	12mm	871ZT-NB12NP18-D4
Micro QD, PNP, NO, Shielded, 30mm Diameter	10mm	871ZT-MB10NP30-D4
Micro QD, PNP, NO, Unshielded, 30mm Diameter	20mm	871ZT-NB20NP30-D4



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