

Product Profile



The Latest VersaCube™ with Slag-Resistant Coating Offers Enhanced Durability in Harsh Welding Applications

Allen-Bradley Weld Field Immune 871P Gets More Rugged

When it comes to the automotive industry, it's common knowledge that welding applications are among the toughest on proximity sensors. It's also the rule that sensor "lock-on" or failure attributed to weld slag buildup results in increased operating costs, down-time and frequent sensor replacement. Historically, the life expectancy of sensors in these applications is often only weeks, sometimes days. The latest addition to the popular Allen-Bradley 871P Weld Field Immune (WFI) VersaCube family of proximity sensors is a direct response to—and is specifically designed for—these issues. It is also evidence of Rockwell Automation's commitment to providing solutions dedicated to customer success.

Enhanced Performance and a Unique New Weld Slag Resistant Coating

These new 871P WFI VersaCube models provide a level of performance far beyond that of similar products typically found in applications requiring weld field immunity. Featuring complementary normally open and normally closed (N.O. + N.C.) outputs as well as equal sensing distance for all metals, unshielded WFI VersaCube models also boast 35mm of sensing distance as opposed to the industry standard 25mm.

But what sets these new models apart is the innovative weld slag resistant coating which covers the sides and sensing face of the VersaCube. This coating prevents the adhesion and accumulation of weld splatter, as well the associated problems—including physical damage or 'burn-through' to the internal components. The result is a sensor that lasts considerably longer than its standard WFI counterparts.



The convenient mounting base makes these new VersaCubes easy to install and maintain. The four-screw mounting bracket is composed of lightweight anodized aluminum, and features an industry-standard footprint and mounting pattern. Adjustment of sensing head position is as simple as rotating the sensor head and tightening down a single hex screw on the top of the bracket.

The new 871P WFI VersaCube is available in shielded and unshielded models with a 4-pin micro connector for additional application flexibility.



Bringing Together Leading Brands in Industrial Automation

Features

- Weld slag resistant body and face
- Equal sensing capabilities
- Convenient mounting base design
- Weld field immunity (WFI)
- Extended 35mm sensing range for unshielded model
- 10-30V DC operating voltage
- Complementary normally open and normally closed outputs



General Ordering Information

Head Size	Weld Field Immune	Nominal Sensing Distance mm (inches)	Shielded	Output Configuration	Switching Frequency (Hz)	Catalog Number
40mm	Y	15 (0.59)	Y	N.O. and N.C.	400	871P-MW15BP40LD4
		35 (1.37)	N		200	871P-NW35BP40LD4
Recommended Standard QD Cordset (-2 = 2m (6.5ft))						889D-F4WE-2

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