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CenterLine Releases VeriFast™ IA Smart Pin Sensing Solution



Platinum member

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CenterLine (Windsor) Limited announce the launch of the VeriFast™ IA (Integrated Amplifier) Nut Detection Solution as the company's latest system for monitoring weld pin position, an important part of the projection welding process. The VeriFast™ IA has the unique ability to sense fastener presence and orientation at the point of weld, piloted and non-piloted nuts, welding stud lengths, infinite weld pin positions (fully extended, fully retracted, etc.) and measurement of projection collapse.

Monitored by the PLC/HMI or MicroView, the VeriFast™ IA signal indicates the position of the fastener weld pin in various stages of travel. The values of this signal are then compared to programmed setpoint values (with tolerances) to indicate the presence and orientation of fasteners and/or parts. Results that do not match the setpoint values can be used to trigger either an interruption in the cycle or a warning message indicating that the process has fallen outside of the tolerance window. These occurrences can indicate a potential fastener or part quality issue.

According to Larry Koscielski, Vice President of Process & Technology Development, "The VeriFast™ IA is a giant step towards simplifying the application and technology of pin sensing. It will enhance our customers' control over fastener welding and clinching processes and demonstrate our commitment to helping our customers solve everyday problems."

The VeriFast™ IA technology has many unique & beneficial features derived from its core principles of operation and the materials and techniques used in its construction.

- **Extreme accuracy** - The VeriFast™ IA system has an extremely high measurement resolution. When considering system signal noise, the practical resolution is 0.0009" (0.02 mm), enabling the system to effectively detect minute changes in process conditions.





- **VeriFast™ IA weld bodies are wired directly** to the control system without the need for a Signal Conditioner, making the installation process faster and easier.
- **Unaffected by foreign matter** such as grease, oil, water and weld dust. The IA coil is contained inside CenterLine's weld body.
- **Extended mechanical life** - There is no contact between the core and coil of the VeriFast™ IA; no parts can rub together or wear out. This results in lower maintenance costs and extended mechanical life.
- **Environmentally robust** - Internal shield minimizes the effects of external AC or DC fields. Both the casing of the coil and the core are made of corrosion-resistant metals.
- **Standard Solutions** - VerFast™ IA is available in a large assortment of styles and weld bodies sizes to support your process requirements.
- **Robust low-pressure** molded connector.

The VeriFast™ IA represents a significant evolution in CenterLine's existing industry-leading technology and is consistent with CenterLine's corporate vision to develop innovative solutions that enable our customers to exceed their operational and profit commitments while minimizing their risk and stress.

To date, CenterLine has been awarded over 80 patents and has numerous North American and international patents pending.

For additional details on the VeriFast™ IA or any of our other advanced automation configured products, please visit our website at www.cntrline.com or contact us at info@cntrline.com.



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About CenterLine (Windsor) Limited

CenterLine (headquartered in Windsor, Ontario) is a Canadian based, privately held corporation, specializing in advanced automation processes and technologies that satisfy resistance welding, metal forming, and cold spray application needs. It is established internationally with manufacturing and/or support facilities situated in the USA, Mexico, Brazil, Germany, Romania, India, and China which help support our customers' international operations. With over 60 years of business experience, CenterLine continues to develop technologies and processes that assist our customers in maintaining their competitive advantage.