

**FOR IMMEDIATE RELEASE:****Rugged Full-Metal  
Inductive Proximity Sensors  
with IO-Link Communications**

February 14, 2023 - Buffalo Grove, IL - Carlo Gavazzi is excited to announce the launch of the new **ICF Full-Metal Inductive Sensors**. This new sensor family offers increased uptime due to their durable stainless steel housing and intelligent monitoring capabilities. Applications in harsh environments such as agriculture, food & beverage, and machining will benefit from the **ICF Full-Metal Inductive Sensors**.

As an industry leader of IO-Link offerings, Carlo Gavazzi is including IO-Link in every ICF inductive sensor for easy ordering, application flexibility, and reduced inventory. An IO-Link master or configurator (such as Carlo Gavazzi's SCTL55 Handheld IO-Link Smart Configurator) is required to change sensor settings during initial installation. However, the sensors can be used as standard transistor output sensors without an IO-Link operating environment. Therefore, the **ICF Full-Metal Inductive Sensors** meet customers wherever they are on their IIoT journey and equips them to be for future automation advances.

Carlo Gavazzi is introducing new intelligent monitoring capabilities through IO-Link in this family of **ICF Series** sensors. Cyclic process data can monitor the quality of detection which allows predictive maintenance to be scheduled before downtime occurs. Additionally, alarms can be customized to signal if a target position is trending closer or further away from the sensing face or high / low internal sensor temperature.

Features and benefits of the **ICF Full-Metal Inductive Sensors** include:

**LONG LIFETIME**

- Extended temperature range (-40 to 85°C and even short exposures up to 15 minutes at 100°C)
- Washdown capabilities (IP68 and IP69K)
- Impact resistant up to 1J due to single piece stainless steel AISI304 housing
- Increased shock (100g) and vibration (25g) resistance
- Withstand pressure on sensing face (Up to 260 bar for M12, 200 bar for M18, & 100 bar for M30 housings)
- ECOLAB approval

## **INCREASED UPTIME DUE TO INTELLIGENT MONITORING**

- Avoid downtime due to early warning capabilities and schedule planned maintenance prior to failure
- Proximity & low margin alarms for notification when the target is beyond the desired operating window
- Alarm for over or under temperature monitoring
- Ability to identify sensors quickly and easily using 'find my sensor' feature

## **ENDLESS CONFIGURATIONS**

- Reduced inventory saves money and warehouse space
- Higher accessibility on-hand (configurable from a single part number) decreases downtime
- More accurate sensor performance from optimal setup
- Less need for customization saves time and money

The new **ICF Full-Metal Inductive Sensors** were specifically designed to withstand extreme operating conditions such as exposure to a wide range of temperature variations, frequent high pressure, and high-temperature washdown cycles.

Designed to withstand extreme operating conditions, these sensors are ready for accurate and reliable detection of actuating parts in harsh environments, such as:

- Skid conveyor positioning in food & beverage conveyor lines
- Monitoring bucket positioning on agricultural equipment
- Counting revolutions of an axle in CNC machinery

The **ICF Full-Metal Inductive Sensors** are the best choice for rugged and intelligent inductive sensing. They are available from Carlo Gavazzi's network of sales offices and distributors in the Americas.

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