

Press Release

CAPACITIVE PROXIMITY SENSOR SERIES WITH LED BAR GRAPH AND INTEGRATED IO-LINK COMMUNICATION: CA18CB... AND CA30CB...

Visual LED bar for easy optimization of the switch point and diagnostics, preventing unexpected service calls.

Lainate, March 2025 - Carlo Gavazzi Automation, the international electronics group with activities in the design, manufacture and marketing of electronic equipment, is pleased to introduce two new series of capacitive sensors with an integrated LED bar graph and IO-Link communication: the CA18CB..IO and CA30CB..IO.

These new sensors offer exceptional sensing performance and simplified adjustments through their integrated LED bar, which displays ON/OFF stability for optimal performance. The balance of green ON/OFF LEDs on either side of the yellow switching LED provides immediate feedback on signal stability and dust levels.

Additionally, the LED bar offers real-time monitoring of dirt and dust accumulation, signaling when cleaning is necessary to ensure long-term reliability. With a heat tolerance of up to 120°C on the sensing face, these sensors are well-suited for applications such as feeding systems, pellet burners, hoppers, blenders, or dryers in plastic molding equipment, where visualizing the setpoint simplifies sensor configuration.

The CA18/30CB sensors are equipped with 4th generation **TripleShield™** protection, offering outstanding reliability by shielding against magnetic and electrical disturbances, particularly from frequency drives.

Certified by ECOLAB and IP69K, these sensors are designed for maximum durability and hygiene, making them ideal for challenging industrial environments.

In addition to the comprehensive technical features of the capacitive sensor families, the IO-Link communication mode unlocks advanced functionalities for diagnostics, extended machine uptime, and reduced spare parts inventory.

“Thanks to the integrated LED bar and IO-Link interface, these capacitive sensors offer high performance and maximum flexibility, meeting the needs of the industrial market,” says Torben Rochat, International Product Manager. “With this launch, Carlo Gavazzi expands its portfolio for industries such as plastic & rubber machinery producers, feeding systems, and automated pellet burners. We developed these sensors to perfectly address any specific application needs in these markets.”

Main technical features

- M18 and M30 with PTFE housings
- LED bar for quick and optimized setup
- Enhanced machine runtime through Quality of Run, temperature and dust alarms
- Fewer unexpected service calls due to the two integrated alarms
- Reduced sensor/machine setup time thanks to LED bar indicators and Quality of Teach functionality
- Lower maintenance time with the SCTL55 diagnostic tool and automatic device reconfiguration

ABOUT CARLO GAVAZZI AUTOMATION

Carlo Gavazzi Automation is an international electronics group with activities in the design, manufacture and marketing of electronic equipment targeted at the global markets of industrial and building automation.

Carlo Gavazzi Automation provides customers with technologically innovative, high quality and competitive solutions, in compliance with their requirements and expectations through its 22 National Sales Companies in Europe, the Americas and Asia & Pacific, operating with its production sites in Denmark, Italy, Malta, Lithuania and China.

For further information:

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