

Press Release

LD30 SERIES: PHOTOELECTRIC LASER SENSORS WITH INTEGRATED IO-LINK COMMUNICATION

Accurate detection and long sensing range in a compact housing.

Lainate, January 2020 - Carlo Gavazzi Automation, the international electronics group with activities in the design, manufacture and marketing of electronic equipment, today presents its new series of IO-Link photoelectric laser sensors, the LD30.

These new laser sensors' main feature is the background suppression based on the Time of Flight (ToF) sensing principle. With a sensing range of up to 1,000 mm for both black and white objects, the background suppression has been increased four times compared to previous versions, in a very compact housing. The IO-Link connections enable, among other attributions, the read-out of the actual sensing distance.

The family consists on 4 sensor types, in either plastic or stainless steel AISI316L housings, and every sensor can be configured in more than half a million combinations.

"The LD30 sensors have been developed to operate in IO-Link environments, where the sensing performance needs to be monitored and logged. Thanks to the easy and full customization of the sensors, the customers can choose from lots of combinations of settings, according to their specific requests," Torben Rochat International Product Manager says. "With the launch of these photoelectric sensors with ToF technology, as well as the IO-Link function implementation, it is our intention to strengthen our position in the market by means of a wider offer."

Developed in our competence centre in Denmark, these sensors have been designed to fulfill the industrial requirements in providing an accurate detection of objects of different sizes, shapes or surface structures, in the Food & Beverage, Machine tools, Packaging & Wrapping, Materials Handling and Plastic & Rubber markets. In addition, the IO-Link communication increases flexibility making settings very easy.

Main technical features

- Two separate switching signal channels (SSC)
- Long range background suppression ToF (Time of Flight) sensor with IO-Link connection for an adjustable distance of 50 to 1,000 mm, either by potentiometer or via IO-Link
- Fully configurable via output IO-Link ver. 1.1
- Each SSC can be set as: single point, two point or windows mode
- Temperature alarms and logging functions
- Logic functions: AND, OR, X-OR and Gated SR-FF
- Timer functions: delay on operate, delay on release, one-shot leading or trailing edge with timing values from 1 ms up to 32,767 min.
- Two independent outputs freely configurable: NPN, PNP, push-pull, external input or as remote teach function

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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