

PHOTOELECTRIC SENSORS WITH BACKGROUND SUPPRESSION

August, 2013 – Carlo Gavazzi is proud to announce the launch of a new range of **Background Suppression (BGS) Photoelectric Sensors** in the popular PA18 and PH18 housings. This allows for precise distance detection and distinction between a target and its background, with the flexibility of an industry standard housing.



The detection principle is based on an Active Pixel Sensor (APS) CMOS array consisting of 64 x 1 sensors, where each pixel represents a specific position of the detected object. This offers an accurate sensing distance regardless of object color, allowing the sensor to be used on a variety of applications. These sensors have also been designed to avoid any false detection caused by lighting or electromagnetic interference, thus reducing system maintenance and increasing the application up-time. Furthermore, thanks to the efficient spherical lens design, this range has a longer sensing distance compared to the other background suppression sensors available on the market today.

The PA18 and PH18 sensors can withstand water pressure up to 100 bar, cleaning agents, and disinfectants. They comply with all of the requirements for the ECOLAB and IP68/69K wash-down approvals. The sensors are well suited for applications in packaging, material handling, and food & beverage.

Technical specifications include:

- ▼ Sensing range: 200 mm
- ▼ Power supply: 10 to 30 VDC
- ▼ Output current rating: 100 mA; Output voltage drop: 2.0 VDC @ 100mA
- ▼ Normally Open and Normally Closed outputs in the same housing
- ▼ PNP or NPN versions
- ▼ Short-circuit, reverse polarity, and overload protection
- ▼ Temperature range: -25°C to +60°C
- ▼ Pre-cabled or M12 quick disconnect
- ▼ IP68/69K
- ▼ ECOLAB approved, CE-marked and cULus approved according to UL508

For more information about these sensors, please click on any of the links below: