



Precise Level Measurement for Industry and Process Technology – CorTEC® Level Switch from EBE

Leinfelden-Echterdingen, 09 May 2023 – EBE sensors + motion presents a new generation of the CorTEC® sensor technology that drives the possibilities of industrial level measurement even further. The sensor system is capable of measuring fill levels also in case of viscous media or slightest dielectric constants. Even media that are difficult to recognize, such as foam, can be detected or masked out by the sensor where required. The new sensor is particularly suitable for industrial and process technology applications, especially in the food, pharmaceutical and chemical industries.

The new level switches allow for precise level measurement with a great variety of media. Thanks to special algorithms, the sensor system is capable of particularly precise measurements of a wide range of substances, including powders and other solids, oils, conductive liquids, cleaning agents, and even highly viscous media such as honey or pastes. Media with minimum dielectric constants ($\epsilon_r < 2$) can also be reliably detected by the EBE CorTEC® sensors. Even if the sensor is completely coated by the substance, it is capable of detecting the fill level. In this process, the level switch can recognize and if necessary mask out media that are difficult to detect such as foam. This allows for constantly precise and reliable measuring even under most difficult conditions.

Possibilities of Adjustment to Individual Applications

Due to the compact design of the PCB, the sensor can be used for a wide range of requirements to the housing of the OEM. It is also possible to adapt the sensor system to very small installation spaces. Depending on the customer requirements, the software can be individually adapted to diverse output signals such as IO-Link, Bluetooth, UART, or PWM. If necessary, it is possible to integrate a great number of supporting functions in order to realize auto-calibration, temperature compensation, or individual switching points. This allows for adapting the sensor to almost any user requirements.

Wide Field of Applications in Industry and Process Technology

The new sensors are particularly suitable for industrial and process technology applications, especially in the food, pharmaceutical, and chemical industries. Here, precise level measurement is indispensable for meeting standards and reliable production. The sensor system can be used in different applications, e.g. for the monitoring of tanks and containers, in dosing systems, or with the filling of liquids. In these applications, the sensors ensure precise and reliable level measurement even with difficult media and conditions. Thus, EBE CorTEC® level switches contribute to higher quality and safety in production and allow for a more efficient utilization of the resources applied.



Picture file: EBE_Level_Switch_CorTEC

Picture text: The reliable level switch of EBE sensors + motion is suitable for the detection of highly different media in industry and process technology.

Picture source: EBE Elektro-Bau-Elemente GmbH

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Short Profile

The company EBE Elektro-Bau-Elemente GmbH (brand name: EBE sensors + motion) based in Leinfelden-Echterdingen near Stuttgart develops and manufactures OEM-products in the fields of sensor technology, components for HMI-interfaces as well as actuator and mechatronics technology. The focus lies on capacitive and inductive sensors based on the technologies developed in-house and mechatronic solutions for industry, appliances, medicine and mobility. The sensor program also includes level sensors, pressure sensors, position sensors and capacitive buttons. Furthermore, EBE develops and manufactures customer-specific solenoids and robust rotary switches, touch sensors and encoders and adapts them to the customer requirements. The company sees itself as a competence center for the development and production of sensor systems and drive technology.

Contact

EBE Elektro-Bau-Elemente GmbH

External Press Officer: Doris Tischer

Sielminger Str. 63, 70771 Leinfelden-Echterdingen, Germany

Tel. +49 711 79986-0, E-Mail: press@ebe.de