

**SOLUTIONS FOR
LEVEL DETECTION**

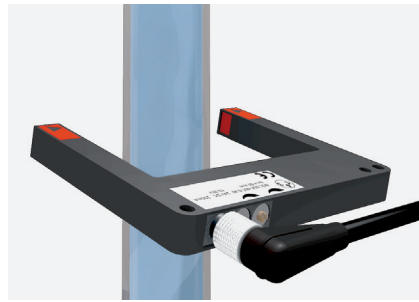
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CONTACT OUR
WORLDWIDE
SUBSIDIARIES

Achieve high precision

RELIABLY MEASURE LIMIT LEVELS

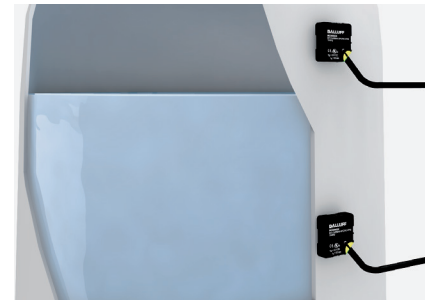
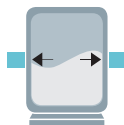


SENSE THROUGH TRANSPARENT
CONTAINER WALLS
Through-beam fork sensors BGL -011-S49

Fork sensors are ideal for critical filling processes. They detect limit levels even in semi-transparent containers as well as small tubes. The emitter and receiver is contained in a single housing. Application-specific modifications are possible.

Features

- Measurement through foam
- Contact-free, wear-free
- Easy installation

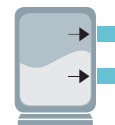


DETECT WITHOUT CONTACT
THROUGH NON-METALLIC
CONTAINERS
BCS capacitive sensors

BCS capacitive sensors are designed for reliable level measurement of fluids. Standard versions are used for detecting non-conductive media without contact. For conductive media our sensors with Smart Level technology handle more difficult applications.

Features

- Compensate for deposits in the tank
- No contact with the media
- Easy installation

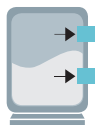


MEDIA CONTACTING MONITORING
INSIDE A TANK
BCS capacitive sensors

BCS capacitive sensors detect levels in direct contact. Standard sensors are ideal for non-conducting media. Versions with our Smart Level technology are the choice for conducting media. All Balluff capacitive sensors are simple to install.

Features

- Compensate for deposits in the tank
- A variety of versions for a broad range of applications



Ideal for individual requirements

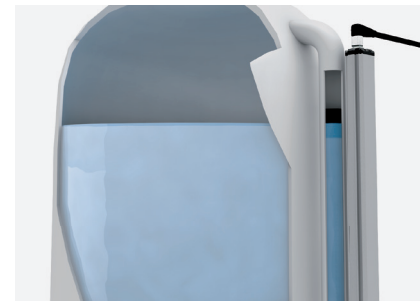
SOLUTIONS FOR LEVEL DETECTION

 innovating automation



Achieve high accuracy

CONTINUOUSLY MONITOR LEVELS



CHECK FROM THE OUTSIDE OF METALLIC/NON-METALLIC TANKS
BTL magnetostrictive linear position sensors

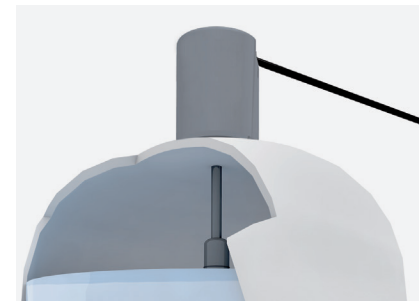
Our high-quality and reliable sensors and systems with a variety of effective principles open up wide-ranging applications.

Balluff solutions have proven its ability in level detection in many different industries, including pharmaceuticals, the food and beverage industry, semiconductor technology, hydraulic systems as well as machine tools.

Our broad product range means we have a solution for virtually any requirement you have.

Features

- Simple installation on bypass tubes
- Can be retrofitted on tanks
- Good price/performance ratio
- Also suitable for explosive atmospheres

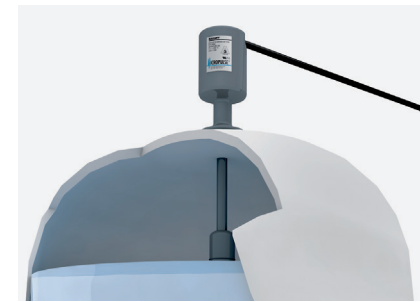


MEASURE LEVELS IN HARSH AND HAZARDOUS ENVIRONMENTS
BMD guided radar sensors

Guided radar sensors are predestined for harsh environments. The hygienic versions are ideal for pharmaceutical and food and beverages applications. These SIL2 certified sensors can also be used in explosion hazard areas such as typically found in refineries and chemical processes.

Features

- Precise, absolute level measurement of liquids and solids
- Measurement lengths to 75 m
- Even suitable for dust- and foam-forming media

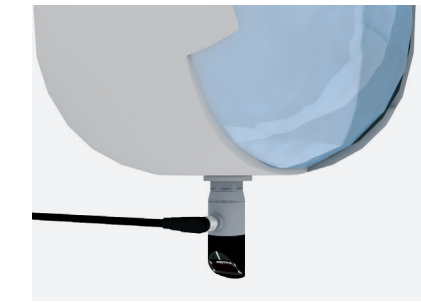


OVERCOME FOAM EVEN UNDER STRICT HYGIENE REQUIREMENTS
BTL-SF level sensors

BTL-SF fill level sensors from Balluff offer you a high sampling rate and accuracy. This makes them ideal for fast and precise filling processes. The non-corroding housing in 1.4404 stainless steel ensures that they meet high sanitary requirements for SIP and CIP. The float reliably compensates for foam on the liquid.

Features

- Unaffected by foam
- Internationally certified quality: Ecolab, 3-A Sanitary Standard, FDA
- Simple to install – no adjustment



RELIABLY MONITOR ALL FILL LEVELS
BSP pressure sensors

BSP pressure sensors offer you a pressure range of 50 mbar and greater. This corresponds to a water column of 500 mm. Our versions in the stainless steel housing are ideal solutions for hygienic requirements. The bright LED Display lets you locally track current system pressure quickly and reliably.

Features

- Available with threading and flange
- Highly linear
- Easy to install



MEASURE WITHOUT CONTACT OUTSIDE OF NON-METALLIC TANKS
BCS self-adhesive capacitive sensor heads

BCW self-adhesive capacitive sensor heads are designed for non-contact level measurement on containers or pipe walls. Since there is no float in the tank, greater security for hygienic processes is ensured. The separately available amplifier lets you continuously output reliable values – either from an analog output or via IO-Link.

Features

- Can be trimmed to length (min. 108 mm)
- Detection range up to 850 mm
- Flexible sensor surface



NON-CONTACT DETECTION IN THE TANK
BUS pressure rated ultrasonic sensors

BUS ultrasonic sensors are precision instruments for detecting solid, powder and liquid media without contact. Whether at normal pressure or in tanks and containers at pressures up to 6 bar.

Features

- Stainless steel housing 1.4571
- Protected against aggressive media by a PTFE membrane
- Protection class IP67

