


The Balluff logo is displayed in a bold, white, sans-serif font in the upper right corner of the image. The background of the entire page is a photograph of a brewery, showing several large stainless steel fermentation tanks in a row, connected by a complex network of pipes and valves. The lighting is bright, highlighting the metallic surfaces and the clean industrial environment. A dark, semi-transparent triangular overlay covers the top right portion of the image, where the logo and title are located.

**BALLUFF**

# SENSORS FOR LEVEL DETECTION

A small red circle containing a white letter 'B' is positioned to the left of the text. A thin white line extends from the top of this circle, pointing towards a red dot on the side of one of the fermentation tanks in the background.

**B** *innovating automation*

## Level detection

# PRECISELY DETECTING POINT LEVELS



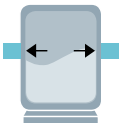
OUTSIDE THROUGH TRANSPARENT CONTAINER WALLS

**With through-beam fork sensors  
BGL ...-011-S49**

BGL fork sensors have an emitter and receiver in one housing. Application-specific adaptation is possible and they are ideal for critical filling processes.

### Features

- Foam compensation
- Contact-free, wear-free
- Easy to install



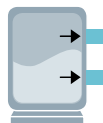
CONTACT-FREE ON OUTSIDE OF NON-METALLIC TANK

**With capacitive sensors BCS**

Standard BCS capacitive sensors are used for nonconductive media and smart level versions are used for conductive media. They provide high reliability for challenging applications.

### Features

- Compensates for deposits in the tank
- No contact with the media
- Easy to install



DIRECT CONTACT ON INSIDE OF TANK

**With capacitive sensors BCS**

Standard BCS capacitive sensors are used for nonconductive media and smart level versions are used for conductive media. They are ideal for standard applications and install quickly.

### Features

- Compensates for deposits on the sensor
- Good price/performance ratio
- Quick installation – no adjustments needed



Please observe the information from the operating manual and data sheet.

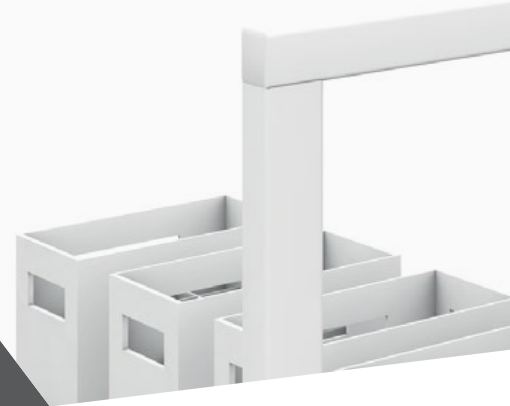
Sensors for level detection

# POINT LEVEL AND LEVEL MEASUREMENT SOLUTIONS.

 *innovating automation*

High-quality, reliable sensors with a variety of effective detection principles open up a wide range of applications. The extensive selection of products provides solutions for your specific requirements.

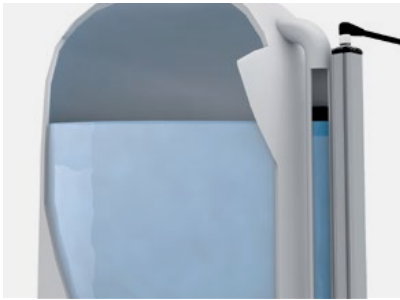
Balluff technology has proven its ability in level detection in a wide assortment of industries, including pharmaceuticals, food and beverage, semiconductor technology, hydraulic systems, and machine tools.





## Level detection

# MONITORING LEVELS CONTINUOUSLY

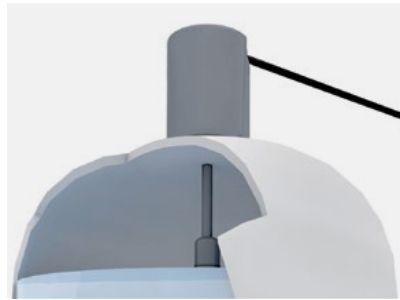


OUTSIDE OF METALLIC/NON-METALLIC TANKS  
**With magnetostrictive linear position sensors BTL**

Magnetostrictive linear position BTL sensors measure fill levels from just a few millimeters up to 6 meters. A variety of interfaces are available including optional hazardous area approval for rod designs.

### Features

- Simple installation on bypass pipes
- Can be used as an upgrade (note the magnetic float properties)
- Good price/performance ratio
- Also for explosive atmospheres



HAZARDOUS/EXPLOSIVE LIQUIDS  
**With magnetostrictive linear position sensors BTL TA12**

BTL TA12 magnetostrictive linear position sensors have worldwide certification including: NEC, CSA, ATEX, and IECEx. They are ideal for metering and dispensing systems and precision level measurement for valuable liquids.

### Features

- Field-replaceable sensor module
- IP68 enclosure rating
- Floats available for low-density fluids



FOR ANY FILL LEVEL  
**With hydrostatic pressure sensors BSP**

Hydrostatic BSP pressure sensors have a pressure range starting from 50 mbar. These sensors are quick and precise, making hygienic solutions possible.

### Features

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



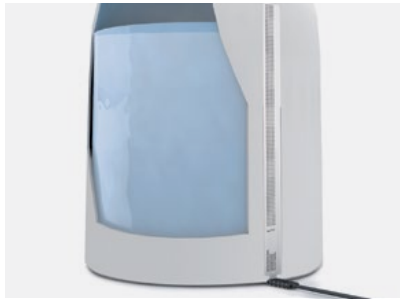


**COMPENSATE FOR FOAM**  
**With magnetostrictive linear position**  
**sensors filling level sensors BTL-SF**

BTL-SF sensors' high measuring rate and accuracy make them ideal for fast, precise filling processes. With their corrosion-free 316 stainless steel housing, they are safe for sterilization (SIP) and cleaning in place (CIP).

**Features**

- Rugged design withstands foam
- Internationally certified quality: Ecolab, 3-A Sanitary Standard, FDA
- Easy to install – no adjustments needed



**DETECTION OVER A WIDE RANGE**  
**Outside stick-on measurement with BCW**  
**self-adhesive capacitive sensors**

BCW sensors are suitable for non-contact level detection on container or pipe walls over a wide detection range. The separately available amplifier makes it possible to reliably detect levels either as analog values or via IO-Link continuously.

**Features**

- Flexible sensor head can be cut to desired length (min. 108 mm)
- Detection range up to 850 mm
- Flexible sensor electrode



Please observe the information from the operating manual and data sheet.

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HOW  
TO REACH  
US