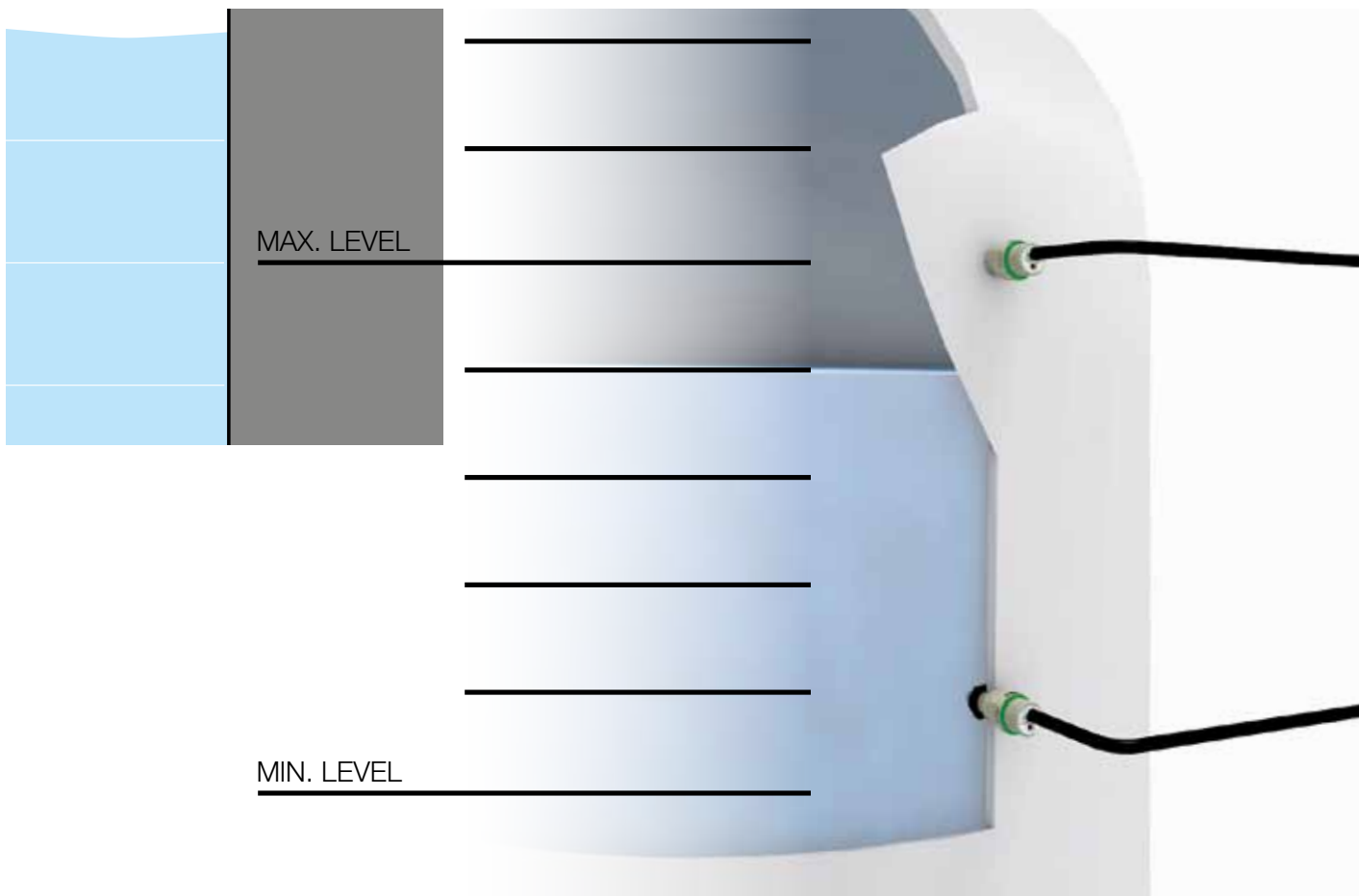


Solutions for Level Detection

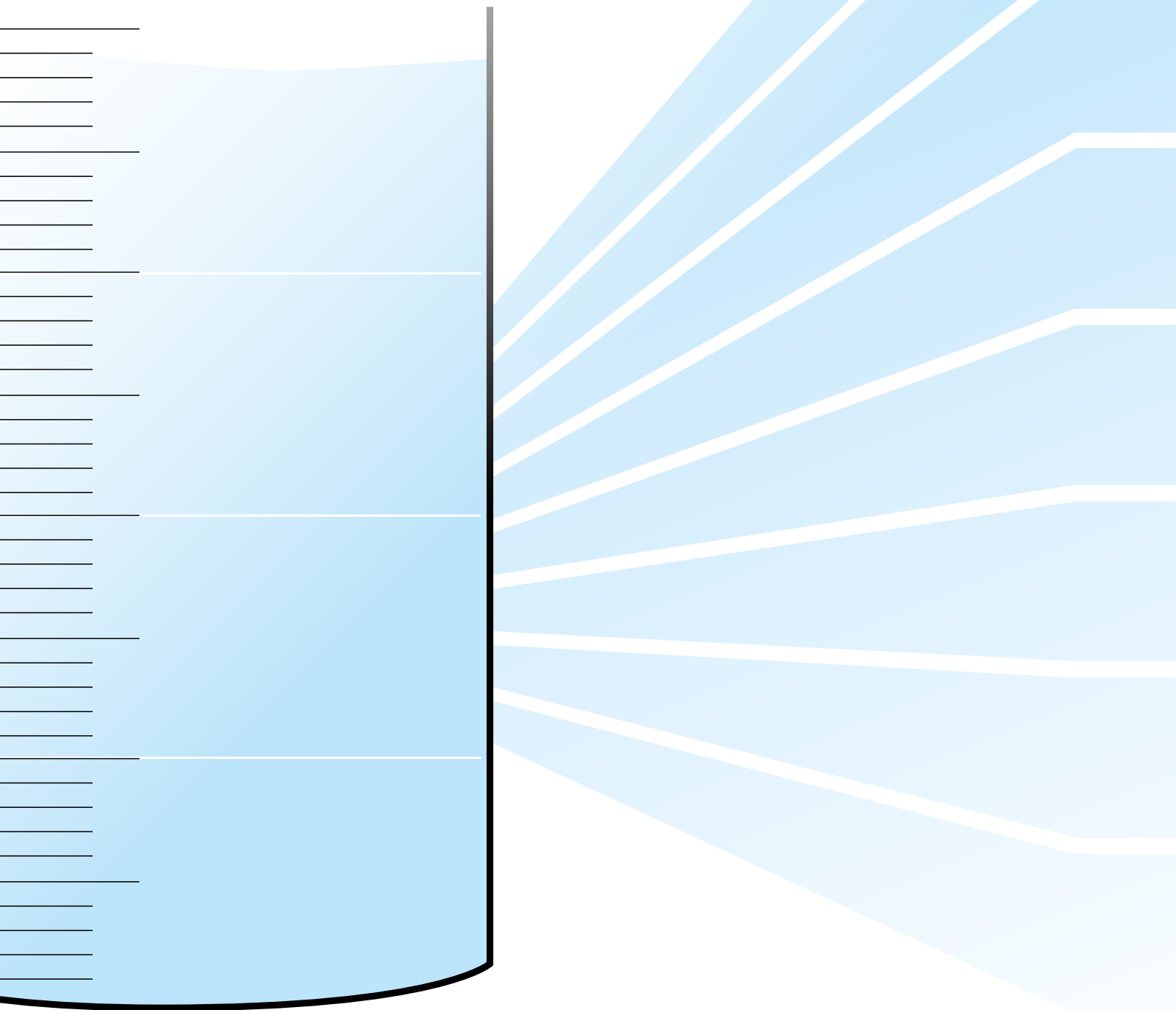
Optimized for your application



Solutions for Level Detection

Optimized for your application

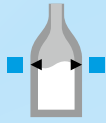
High-quality sensors and systems with a variety of effective principles open up wide-ranging applications. The extensive selection of products provides solutions for your specific requirements. Balluff technology has proven its ability in level detection in a wide assortment of industries. This includes in pharmaceuticals, the food and beverage industry, semiconductor technology, hydraulic systems, as well as machine tools.



Precisely detecting point levels

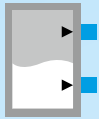
Properties

Benefits



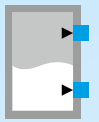
Outside – through transparent container walls: through-beam fork sensors BGL ...-011-S49

- Emitter and receiver in one housing
- Foam compensation
- Application-specific adaptation possible
- Ideal for critical filling processes
- Contact-free, wear-free
- Easy to install



Contact-free – outside the tank: capacitive sensors BCS

- Standard sensors for nonconductive media
- SmartLevel sensors for conductive media
- No contact with the media
- Easy to install
- High application reliability for challenging applications
- Compensates for deposits in the tank



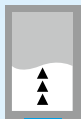
In direct contact – inside the tank: capacitive sensors BCS

- Standard sensors for nonconductive media
- SmartLevel sensors for conductive media
- Ideal for standard applications
- Good price/performance ratio
- Compensates for deposits on the sensor
- Can be installed quickly – no adjustments needed



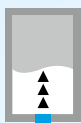
Outside metallic/non-metallic tanks: Micropulse transducers BTL

- For fill levels from just a few millimeters up to 6 m
- Variety of interfaces
- Optional ATEX approval for rod designs
- Simple installation on bypass pipes
- Can be used as an upgrade (note the magnetic float properties)
- Good price/performance ratio
- Also for explosive atmospheres



Outside metallic/non-metallic tanks: ultrasonic sensors BUS Sonar

- Range of 30...1000 mm
- Compensates for foam
- Steel walls up to 3 mm
- For high hygiene standards
- Fast installation
- Can be used as an upgrade



For any fill level: hydrostatic pressure sensors BSP

- Available with threading and flange
- Pressure range starting from 50 mbar
- Highly linear
- Quick and precise
- Easy to install
- Hygienic solutions possible



Compensates for foam: Micropulse filling level sensors BTL-SF

- Corrosion-free stainless steel 1.4404
- Safe for sterilization (SIP) and cleaning in place (CIP)
- Rugged design that withstands foam
- Very high measuring rate and accuracy
- For fast, precise filling processes
- Internationally certified quality: Ecolab, 3-A Sanitary Standard, FDA
- Easy to install – no adjustments needed



Detecting from above in the tank: pressure proof ultrasonic sensors BUS M30E2

- G1" thread, pressure proof up to 6 bar
- PTFE membrane for protection against aggressive media
- Stainless steel housing 1.4571
- Ideal for the high requirements in the food industry
- Non-contact and wear-free
- Resistant to chemicals



Monitoring levels continuously

BALLUFF

sensors worldwide



Systems and Service



Industrial Networking and Connectivity



Industrial Identification



Object Detection



Linear Position Sensing and Measurement



Condition Monitoring and Fluid Sensors



Accessories

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

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