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PRODUCT OVERVIEW

LBV3xx

Level sensors

SICK

Sensor Intelligence

LEVEL SENSORS

LBV3xx

Vibrating level switch for reliable level detection in bulk materials – maintenance-free, ATEX-approved and suitable for use with foodstuffs.

The vibrating level switches in the LBV3xx product series reliably perform tasks as full, empty or demand detectors in bulk materials. A piezoelectric drive causes the rugged sensors with vibrating fork or vibrating rod to vibrate. As soon as bulk material covers the vibrating rod or fork, the vibration amplitude changes. The sensors reliably detect this change and convert it into a switching signal. The products can also be used in the food industry. While the LBV31x compact device is suitable for lateral mounting, the LBV33x tube-extended sensor with sensing ranges of up to 6 m is used for vertical mounting. With a wide range of process connections and several electronic variants, LBV3xx offers a solution for numerous applications, even in explosive atmospheres.

LBV3xx AT A GLANCE

BENEFITS

- Simple installation and quick commissioning without pre-calibration
- Easy operation and integration
- Maintenance-free system
- Sensors can be tested while installed
- Flexible and reliable measurement system for a wide range of applications
- Vertical mounting, even in difficult installation and ambient conditions

FEATURES

- Rugged device design and compact sensor with 1" or larger thread
- Choice of various materials and electrical output signals
- Immune to deposit formation
- No sticking or jamming of bulk material thanks to the rod shape
- Commissioning without filling
- Process temperature up to 250 °C
- Very high repeatability
- ATEX certifications (1D / 2D / 1G / 2G) available

TECHNICAL DATA OVERVIEW

Measurement principle	Vibrating level switch
Detection principle	Contact
Medium	Bulk solids
Measurement	Switch
Process connection	G 1 Flange 1 ½" NPT Without process connection Tri-Clamp
Process temperature	-50 °C ... +250 °C
Process pressure	-1 bar ... 16 bar
Connection type	M20 x 1.5 (DIN 16288)

Select the right product variant and accessories directly online. There you will also find example applications as well as downloads such as CAD dimensional models, operating instructions and software.

www.sick.com/LBV3xx



SICK AG
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SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnership with our customers is more than just a promise: Together, we optimize productivity, elevate quality, protect health and safety, and sustain the future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions.

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