

LBV310-GXCGDCAMX

LBV3xx

LEVEL SENSORS





Ordering information

Туре	part no.
LBV310-GXCGDCAMX	6041552

Other models and accessories → www.sick.com/LBV3xx

Illustration may differ



Detailed technical data

Features

Medium	Bulk solids
Measurement	Switch
Probe type	Tuning fork
Probe length	220 mm
Process pressure	-1 bar 25 bar
Process temperature	-50 °C +150 °C ¹⁾
Fill material density	≥ 0.008 g/cm ³
Particle size	< 10 mm
ATEX approval	ATEX II 1D, 1/2D, 2D Ex ta ta/tb tb IIIC Tx Da, Da/Db, Db
Type examination	BVS 17 ATEX E 099

 $^{^{1)}}$ Detection of solids in water.

Performance

Accuracy of sensor element	± 10 mm
Reproducibility	≤ 5 mm
Response time	500 ms ¹⁾ 1,000 ms ²⁾
MTBF	4,61*10^6 h

 $^{^{1)}}$ When covered.

Electronics

Communication interface	-
Supply voltage	20 V AC/DC 253 V AC/DC
Power consumption	< 4.2 mA
Initialization time	<3s
VDE protection class 1	√

²⁾ When uncovered.

Connection type	M20 x 1.5
Output signal	Non-contact switch
Electronics	Non-contact switch
Hysteresis	10 mm
Output current	< 400 mA
Inductive load	≤1H
Capacitive load	100 nF
Enclosure rating	IP66 IP67

Mechanics

Wetted parts	Stainless steel 1.4404 / 316L
Process connection	G 1½ A PN 25
Housing material	Aluminum
Sensor material	Stainless steel 1.4404

Ambient data

Ambient operating temperature	-40 °C +80 °C
Ambient temperature, storage	-40 °C +80 °C

Classifications

ECLASS 5.0	27273202
ECLASS 5.1.4	27273202
ECLASS 6.0	27273202
ECLASS 6.2	27273202
ECLASS 7.0	27273202
ECLASS 8.0	27273202
ECLASS 8.1	27273202
ECLASS 9.0	27273202
ECLASS 10.0	27273202
ECLASS 11.0	27273202
ECLASS 12.0	27273106
ETIM 5.0	EC002654
ETIM 6.0	EC002654
ETIM 7.0	EC002654
ETIM 8.0	EC002654
UNSPSC 16.0901	41111938

Certificates

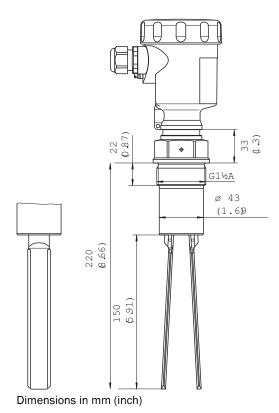
EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
China RoHS	✓
FDA certificate	✓

LBV310-GXCGDCAMX | LBV3xx

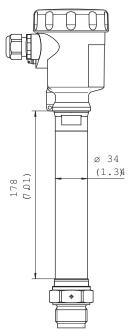
LEVEL SENSORS

ATEX certificate	✓
EAC certificate / DoC	✓

Dimensional drawing LBV310 threaded version G 1½ A (DIN ISO 228/1)

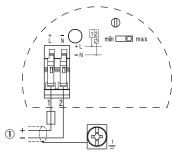


Dimensional drawing Temperature adapter



Dimensions in mm (inch)

Connection diagram Contactless electronic switch connection diagram



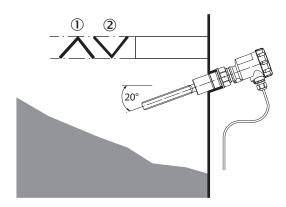
① Shielding

Instruction for installation Flow orientation of the tuning fork



- ① Marking with screwed version
- ② Direction of flow

Instruction for installation Horizontal mounting



- ① Protective sheet
- ② Concave protective sheet for abrasive solids

Recommended accessories

Other models and accessories → www.sick.com/LBV3xx

	Brief description	Туре	part no.	
Mounting sys	Mounting systems			
	 Description: Locking screw connection, process pressure -1 bar to 16 bar, process connection G 2 A, inner thread G 1 1/2 A Material: Stainless steel Details: Stainless steel 316L 	BEF-MU-316G20- ALBV	5322462	

LBV310-GXCGDCAMX | LBV3xx

LEVEL SENSORS

	Brief description	Туре	part no.	
Power supply	Power supply units and power supply cables			
8.6	Description: Contactless switch: 20 V AC/DC 250 V AC/DC	ECD-RE-LB- VKOS-0001	6038665	

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

WORLDWIDE PRESENCE:

Contacts and other locations -www.sick.com

