

LBV310-XXBGDTKNX

LBV3xx

LEVEL SENSORS





Ordering information

Туре	part no.
LBV310-XXBGDTKNX	6038067

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 +250 °C ¹⁾
Fill material density	≥ 0.008 g/cm ³
Particle size	< 10 mm

 $^{^{1)}}$ Temperature range with temperature adapter.

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	10 V DC 55 V DC
Residual ripple	≤ 5 V _{pp}
Initialization time	<2s
VDE protection class 2	✓
Connection type	1⁄2" NPT
Output signal	1 x PNP/NPN
Electronics	Volt-free transistor output PNP/ NPN
Hysteresis	10 mm

²⁾ When uncovered.

Output current	< 300 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	Plastic
Sensor material	Stainless steel 1.4404

Ambient data

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

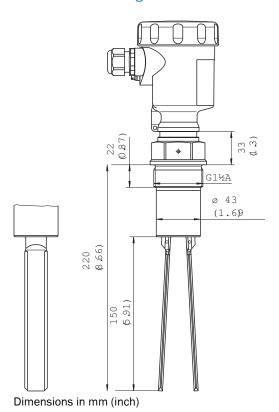
Classifications

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

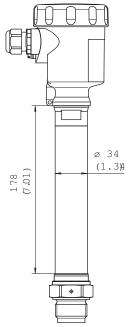
Certificates

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

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

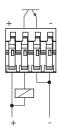


Dimensional drawing Temperature adapter

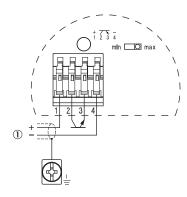


Dimensions in mm (inch)

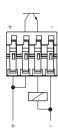
Connection diagram NPN action



Connection diagram Transistor connection diagram



Connection diagram PNP action

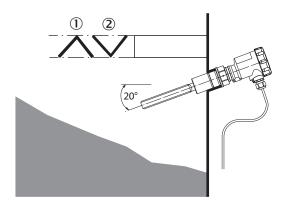


Instruction for installation Flow orientation of the tuning fork



- 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	tems		
	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-XXBGDTKNX | LBV3xx

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	Brief description	Туре	part no.	
Power supply	Power supply units and power supply cables			
6.6	Description: Transistor (PNP/NPN): 10 V DC 55 V DC	ECD-RE-LB- VPNP-0001	6038667	

SICK AT A GLANCE

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