

# LBV310-XXBGDN8NX

LBV3xx

**LEVEL SENSORS** 





# Ordering information

Туре	part no.
LBV310-XXBGDN8NX	6038075

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 <sup>1)</sup>
Fill material density	≥ 0.008 g/cm <sup>3</sup>
Particle size	< 10 mm

<sup>1)</sup> Temperature range with temperature adapter.

#### Performance

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

 $<sup>^{1)}</sup>$  When covered.

#### **Electronics**

Communication interface	-
Supply voltage	4.5 V DC 12 V DC
Power consumption	1 mA / 2,5 mA
Initialization time	<2s
VDE protection class 2	<b>√</b>
Connection type	1⁄2" NPT
Output signal	NAMUR signal
Electronics	NAMUR signal
Hysteresis	10 mm

<sup>&</sup>lt;sup>2)</sup> When uncovered.

Output current	1 mA / 2,5 mA
Enclosure rating	IP66 IP67

### Mechanics

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

### Ambient data

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

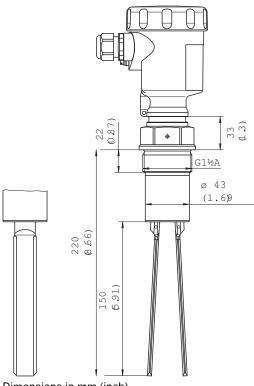
# Classifications

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

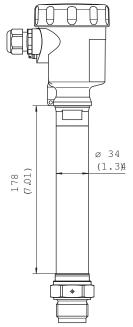
EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
China RoHS	✓
FDA certificate	✓

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



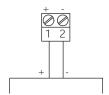
Dimensions in mm (inch)

# Dimensional drawing Temperature adapter



Dimensions in mm (inch)

### Connection diagram Namur connection diagram

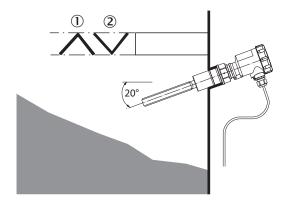


# Instruction for installation Flow orientation of the tuning fork



- ① Marking with screwed version
- ② Direction of flow

# Instruction for installation Horizontal mounting



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

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LEVEL SENSORS

#### Recommended accessories

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	Brief description	Туре	part no.	
Mounting syst	Mounting systems			
	<ul> <li>Description: Locking screw connection, process pressure -1 bar to 16 bar, process connection G 2 A, inner thread G 1 1/2 A</li> <li>Material: Stainless steel</li> <li>Details: Stainless steel 316L</li> </ul>	BEF-MU-316G20- ALBV	5322462	
Power supply	Power supply units and power supply cables			
	• <b>Description:</b> Namur signal: 4.5 V DC 12 V DC	ECD-RE-LB- VNAM-0001	6038668	

# 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

