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DATA SHEET

# LBV330-CKAMFNAMX1500

LBV3xx
Level sensors

SICK
Sensor Intelligence



Illustration may differ

## LEVEL SENSORS

# LBV330-CKAMFNAMX1500

### ORDERING INFORMATION

| Type | part no. |
|---|---|
| LBV330-CKAMFNAMX1500 | 6074359 |

Further device versions and accessories at www.sick.com/LBV3xx

## DETAILED TECHNICAL DATA

### FEATURES

| | |
|---|---|
| Medium | Bulk solids |
| Measurement | Switch |
| Probe type | Tuning fork |
| Probe length | 1,500 mm |
| Process pressure | –1 bar ... 25 bar |
| Process temperature | –50 °C ... +150 °C |
| Fill material density | ≥ 0.008 g/cm³ |
| Particle size | < 10 mm |
| ATEX approval | ATEX II 1G, 1/2G, 2G Ex ia IIC T6 Ga, Ga/Gb, Gb, ATEX II 1D, 1/2D, 2D Ex ta ta/tb tb IIIC Tx Da, Da/Db, Db |
| Type examination | PTB 17 ATEX 2017 X, BVS 17 ATEX E 099 |

### PERFORMANCE

| | |
|---|---|
| Accuracy of sensor element | ± 10 mm |
| Reproducibility | ≤ 5 mm |
| Response time | 500 ms [1]<br>1,000 ms [2] |
| MTBF | 4,61*10^6 h |

[1] When covered.

[2] When uncovered.

### ELECTRONICS

| | |
|---|---|
| Communication interface | - |
| Supply voltage | 4.5 V DC ... 12 V DC |
| Power consumption | 1 mA / 2,5 mA |
| Initialization time | < 2 s |

| | |
|---|---|
| VDE protection class 2 | ✓ |
| Connection type | M20 x 1.5 |
| Output signal | NAMUR signal |
| Electronics | NAMUR signal |
| Hysteresis | 10 mm |
| Output current | 1 mA / 2,5 mA |
| Enclosure rating | IP66<br>IP67 |

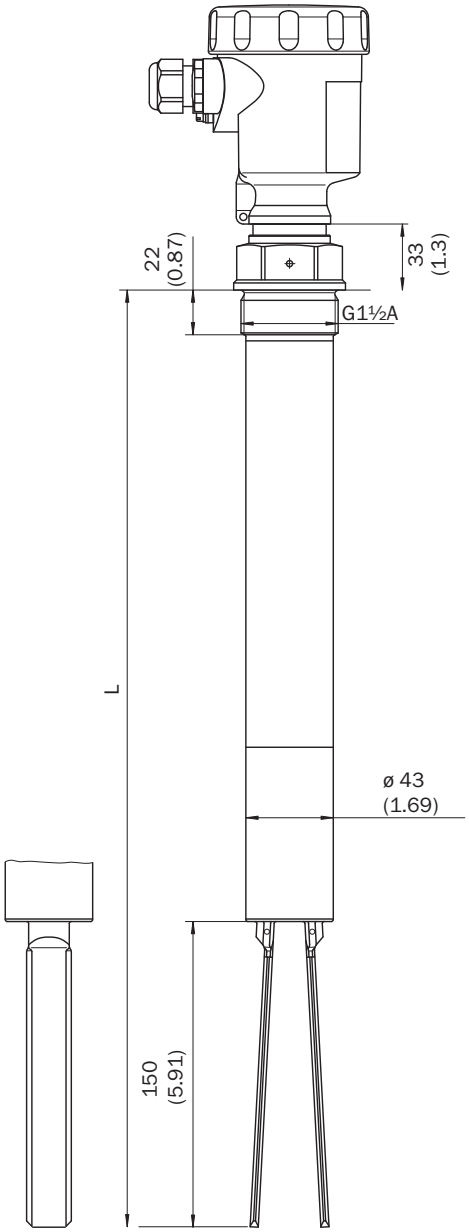
## MECHANICS

| | |
|---|---|
| Wetted parts | Stainless steel 1.4404 / 316L |
| Process connection | Flange DN 100 PN 16 Form C, DIN2501/ 316L |
| Housing material | Aluminum |
| Sensor material | Stainless steel 1.4404 |

## AMBIENT DATA

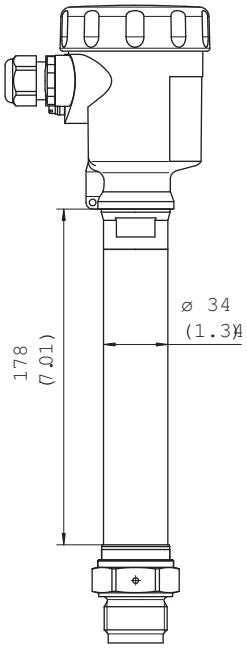
| | |
|---|---|
| Ambient operating temperature | –40 °C ... +80 °C |
| Ambient temperature, storage | –40 °C ... +80 °C |

**DIMENSIONAL DRAWING LBV330 THREADED VERSION G 1½ A (DIN ISO 228/1)**



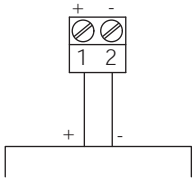

Dimensions in mm (inch)

**DIMENSIONAL DRAWING TEMPERATURE ADAPTER**

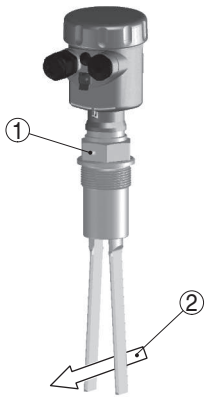



Dimensions in mm (inch)

**CONNECTION DIAGRAM NAMUR CONNECTION DIAGRAM**

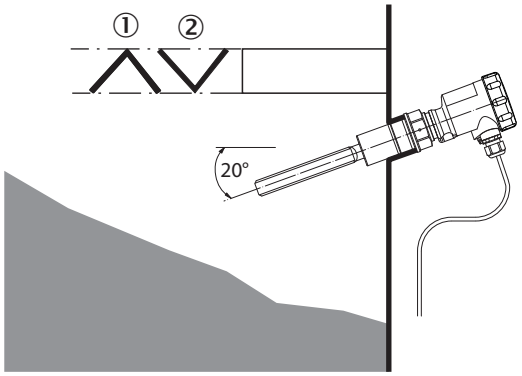



**INSTRUCTION FOR INSTALLATION FLOW ORIENTATION OF THE TUNING FORK**




① Marking with screwed version
② Direction of flow

**INSTRUCTION FOR INSTALLATION HORIZONTAL MOUNTING**




① Protective sheet
② Concave protective sheet for abrasive solids

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/6074359

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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 partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable 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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