



Level sensors Vibrating level switch, LBV320

LBV320-XXTNDRAMX02300



Model Name > **LBV320-XXTND RAMX02300**
Part No. > **6038440**



*Product may differ
from illustration*

At a glance

- Rugged device design with suspension cable up to 80 m
- Several housing materials and electrical outputs available
- Immune to deposit formation
- Commissioning without filling
- Process temperature up to 150 °C
- Very high repeatability
- ATEX versions (1D/2D/1G/2G) available
- Short versions (LBV310) and tube-extended devices (LBV330) available

Your benefits

- Easy installation and commissioning, no calibration necessary
- Easy operation and integration, saves time
- Maintenance-free sensor, reduces downtime
- Testing in place possible - no mounting required, which reduces installation time
- Flexible and tough system for a multitude of applications
- Solutions for vertically mounted switches in difficult installation conditions



Features

Medium:	Bulk solids
Measurement:	Switch
Probe length:	2,300 mm
Process pressure:	-1 bar ... 6 bar
Process temperature:	-20 °C ... 80 °C
ATEX certification:	-
Particle size:	< 10 mm
Fill material density:	0.008 g/cm ³
Tensile strength:	≤ 3,000 N

Performance

Accuracy:	± 10 mm
Repeatability:	± 5 mm
Response time:	500 ms

Mechanical data

Housing material:	Aluminum
Process connection:	1 1/2" NPT PN 25/316L

Sensor material:

Stainless steel 316L, 318LN, PUR

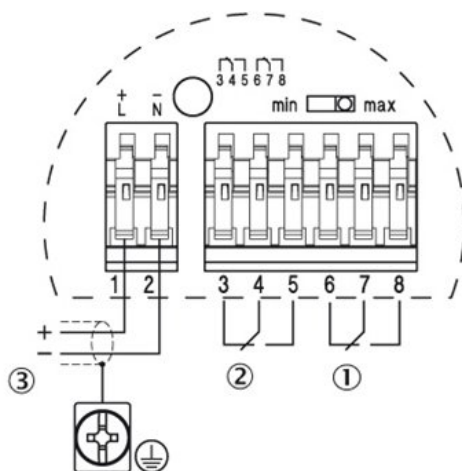
Electrical data

Enclosure rating:	IP 66
Power consumption:	5 mA ... 30 mA
VDE protection class 1:	✓
Initialization time:	2 s
Output type:	Double relay (DPDT): 20 V DC ... 72 V DC/20 ... 253 V AC
Hysteresis:	10 mm
Output current:	> 10 UA, 3A AC, 1A DC
Capacitive load:	750 VA 54 W
Inductive load:	750 VA 54 W
Connection type:	M20x1,5

Ambient data

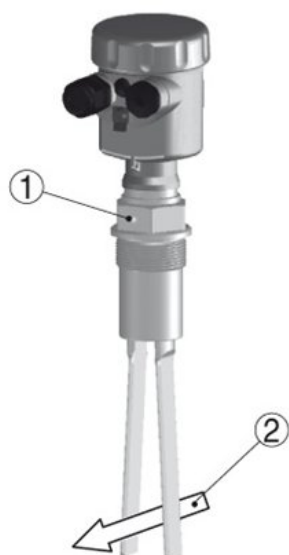
Ambient operating temperature:	-40 °C ... 80 °C
Ambient storage temperature:	-40 °C ... 80 °C

Double relay connection diagram



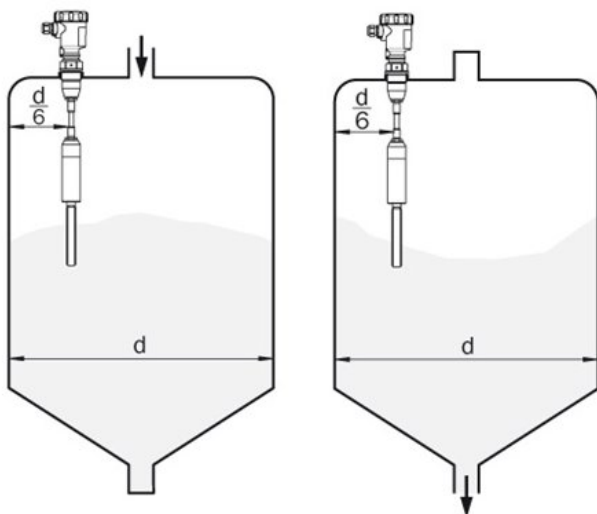
- [1] Relay output
- [2] Relay output
- [3] Power supply

Flow orientation of the tuning fork

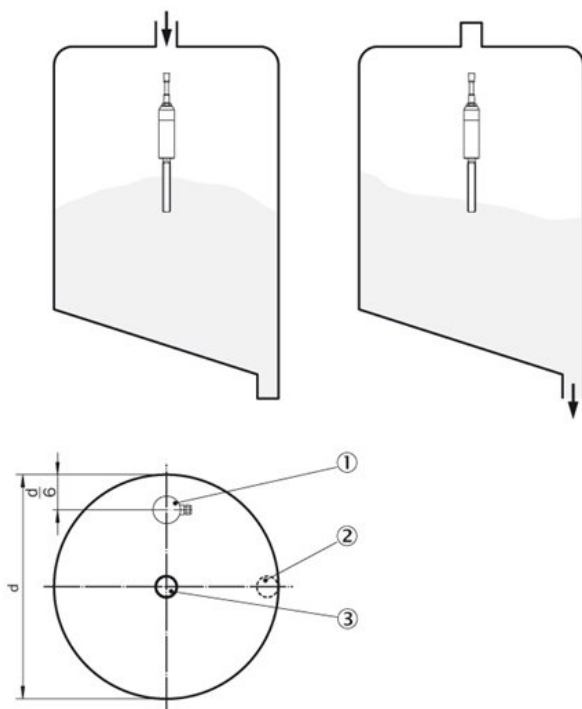


- |1| Marking with screwed version
- |2| Direction of flow

Mounting instruction: filling / emptying

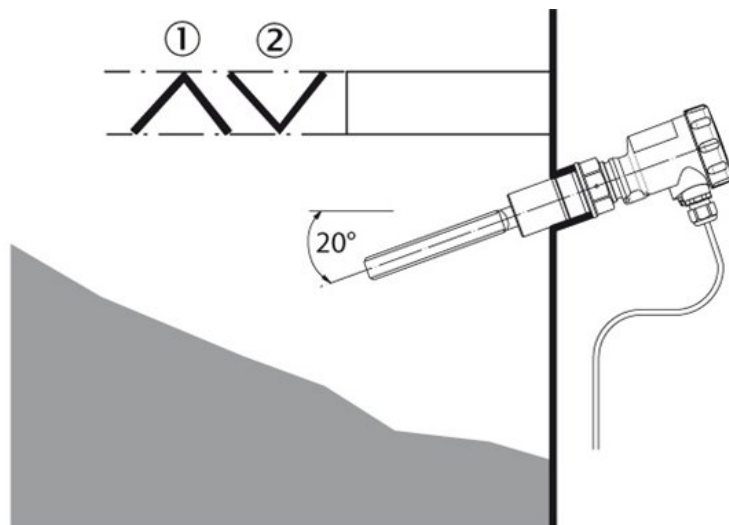


Mounting instruction: filling / emptying (side view)



- |1| LBV320
- |2| Discharge opening
- |3| Filling opening

Horizontal mounting



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

Technical drawing of the 1000 Series Cable Mounting Bracket. The drawing shows a side view of the bracket with various dimensions labeled. The total length is indicated as L. The dimensions are as follows:

- Top section: 22 (55/64)
- Section below top: 40 (1 37/64)
- Section below that: 160 (8 19/64)
- Bottom section: 150 (5 29/32)
- Top flange diameter: $\phi 43$ (1 11/16)
- Top flange thickness: 33 (1 19/64)
- Top flange hole diameter: $G1\frac{1}{2}A$
- Intermediate section diameter: $\phi 11$ (7/16)
- Bottom section diameter: $\phi 43$ (1 11/16)

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