



Level sensors Vibrating level switch, LBV320

LBV320-GXTGDRVMX05000



Model Name > **LBV320-GXTGDRVMX05000**
Part No. > **6039281**



Illustration may differ

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:	5,000 mm
Process pressure:	-1 bar ... 6 bar
Process temperature:	-20 °C ... 80 °C
ATEX approval:	ATEX II 1D, 1/2D, 2D Ex t IIIC T... Da, Da/Db, Db IP66
Particle size:	< 10 mm
Fill material density:	≥ 0.008
Tensile strength:	≤ 3,000 N
Type examination:	TÜV 09 ATEX 555503

Performance

Accuracy of sensor element:	± 10 mm
Repeatability:	≤ 5 mm
Response time:	500 ms when covered / 1000 ms when uncovered

Mechanical data

Housing material:	Stainless steel (casted) 316L
Process connection:	G 1½ A PN 25
Sensor material:	Stainless steel 316L, 318LN, PUR

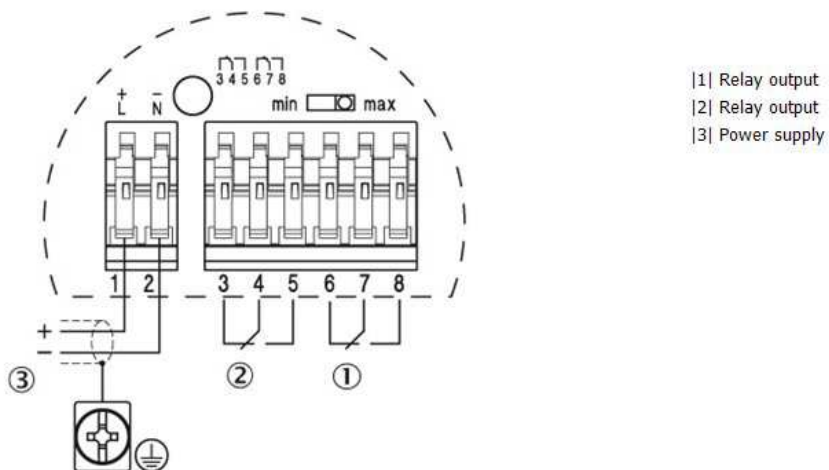
Electrical data

Enclosure rating:	IP 66/IP 67
Supply voltage:	Double relay (DPDT): 20 V DC ... 72 V DC/20 ... 253 V AC
Power consumption:	5 mA ... 30 mA
VDE protection class 1:	✓
Initialization time:	< 2 s
Hysteresis:	10 mm
Output current:	> 10 µA; < 3A AC, 1A DC
Capacitive load:	750 VA 54 W
Inductive load:	750 VA 54 W
Electrical connection:	M20 x 1.5
Contact load:	Min. 50 mW/max. 750 VA, 54 W

Ambient data

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

Double relay connection diagram

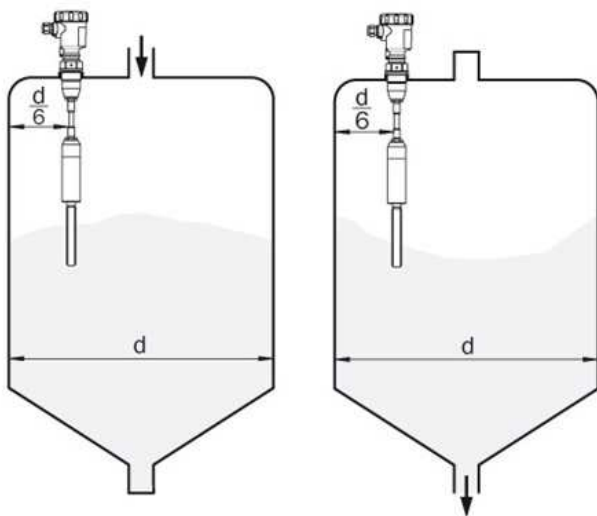


Flow orientation of the tuning fork

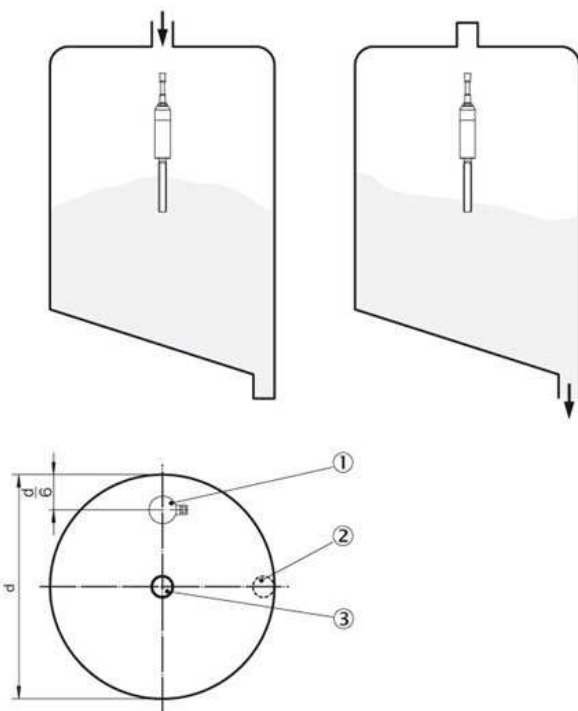


- |1| Marking with screwed version
- |2| Direction of flow

Mounting instruction: filling / emptying

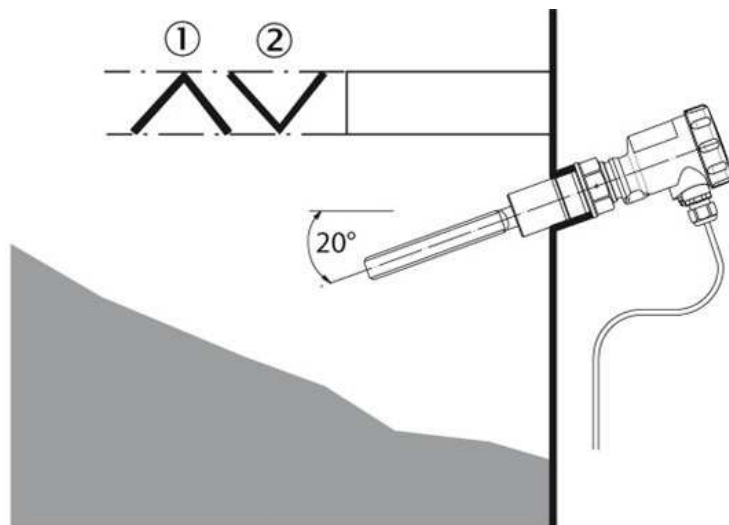


Mounting instruction: filling / emptying (side view)



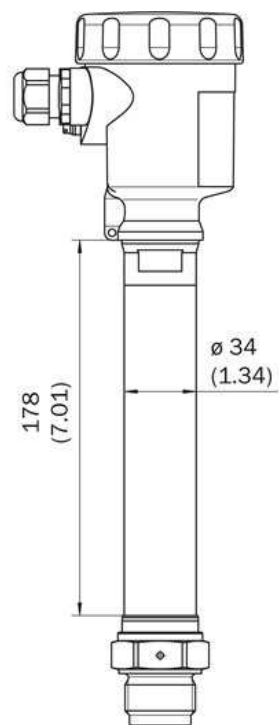
- |1| LBV320
- |2| Discharge opening
- |3| Filling opening

Horizontal mounting

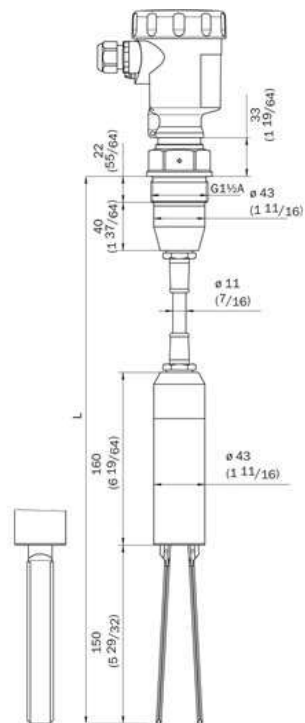


- |1| Protective sheet
- |2| Concave protective sheet for abrasive solids

Temperature adapter



Dimensional drawing



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