



## Level sensors Vibrating level switch, LBV310

LBV310-GXANDRVNX



**Model Name** > **LBV310-GXANDRVNX**  
**Part No.** > **6042771**



*Illustration may differ*

#### At a glance

- Rugged device design
- Several housing materials and electrical outputs available
- Immune to deposit formation
- Commissioning without filling
- Process temperature up to 250 °C
- Very high repeatability
- ATEX versions (1D/2D/1G/2G) available
- Tube extensions (LBV330) and rope extensions (LBV320) available for vertical mounting up to 80 m distance

#### 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



#### Features

|                        |                              |
|------------------------|------------------------------|
| Medium:                | Bulk solids                  |
| Measurement:           | Switch                       |
| Probe length:          | 200 mm                       |
| Process pressure:      | -1 bar ... 25 bar            |
| Process temperature:   | -50 °C ... 150 °C            |
| ATEX approval:         | ATEX II 1D, 1/2D, 2D IP 6X T |
| Particle size:         | < 10 mm                      |
| Fill material density: | ≥ 0.008                      |
| Type examination:      | TÜV 09 ATEX 555503           |

#### Performance

|                             |         |
|-----------------------------|---------|
| Accuracy of sensor element: | ± 10 mm |
| Repeatability:              | ≤ 5 mm  |
| Response time:              | 500 ms  |

#### Mechanical data

|                     |                               |
|---------------------|-------------------------------|
| Housing material:   | Stainless steel (casted) 316L |
| Process connection: | 1 1/2" NPT PN 25/316L         |

Sensor material: Stainless steel 1.4404

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**Electrical data**

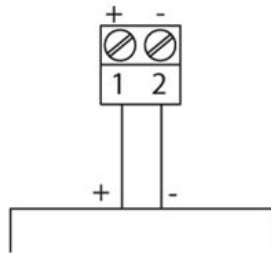
|                         |                                    |
|-------------------------|------------------------------------|
| Enclosure rating:       | IP 66                              |
| Power consumption:      | 1 mA/2,5 mA                        |
| VDE protection class 2: | ✓                                  |
| Initialization time:    | 2 s                                |
| Output signal:          | NAMUR signal: 4.5 V DC ... 12 V DC |
| Hysteresis:             | 10 mm                              |
| Output current:         | 1 mA/2,5 mA                        |
| Connection type:        | ½" NPT                             |

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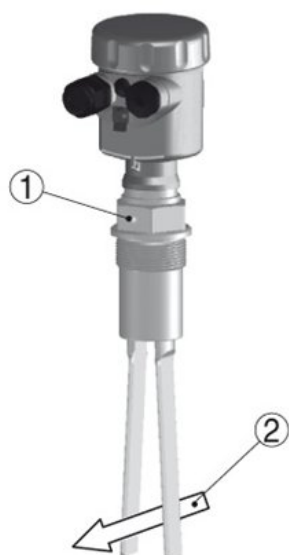
**Ambient data**

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

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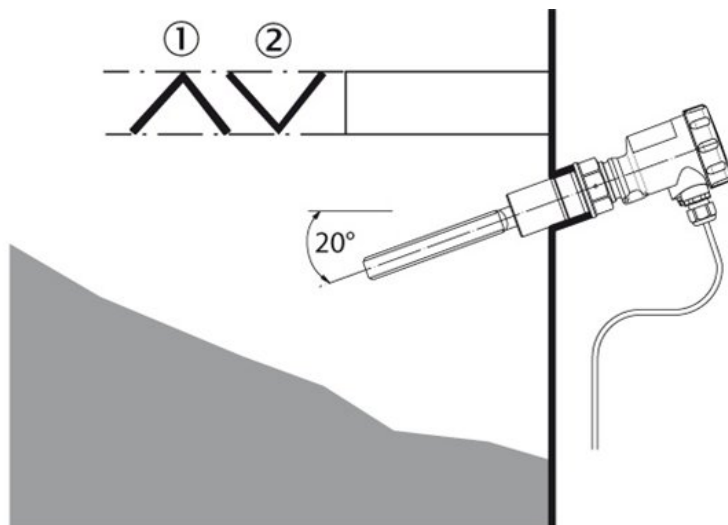
**Namur connection diagram**

## Flow orientation of the tuning fork



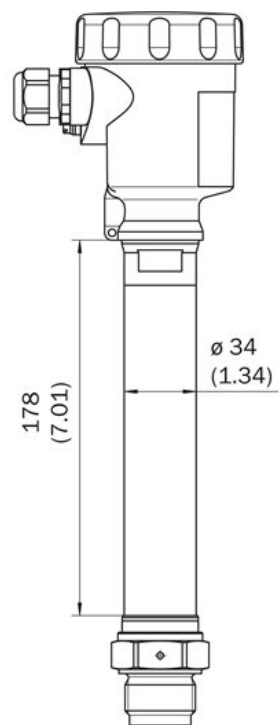
- |1| Marking with screwed version
- |2| Direction of flow

## Horizontal mounting

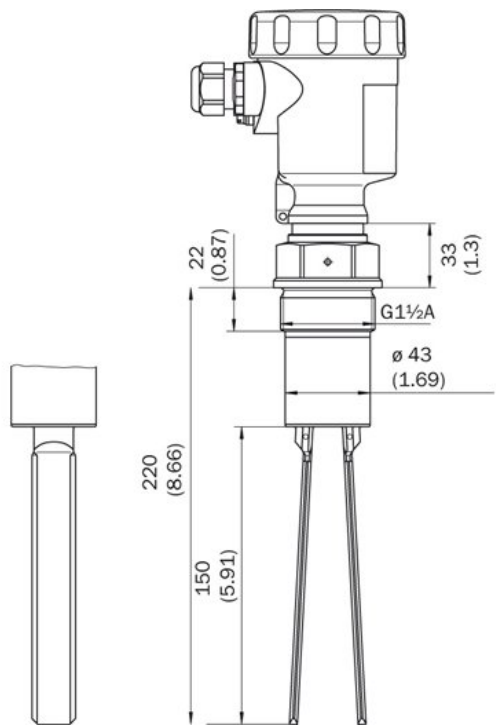


- |1| Protective sheet
- |2| Concave protective sheet for abrasive solids

Temperature adapter



Dimensional drawing



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