



## Level sensors Vibrating level switch, LBV330

LBV330-XXAGDTKMX1200



**Model Name** > [LBV330-XXAGDTKMX1200](#)  
**Part No.** > [6042857](#)



*Product may differ  
from illustration*

#### At a glance

- Rugged device design with tube extension up to 6 m
- 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
- Short versions (LBV310) and rope-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 robust system for a multitude of applications
- Solutions for vertically mounted sensors in difficult installation conditions



#### Features

|                        |                   |
|------------------------|-------------------|
| Medium:                | Bulk solids       |
| Measurement:           | Switch            |
| Probe length:          | 1,200 mm          |
| Process pressure:      | -1 ... 25 bar     |
| Process temperature:   | -50 °C ... 150 °C |
| ATEX certification:    | -                 |
| Particle size:         | < 10 mm           |
| Fill material density: | 0.008             |

#### Performance

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

#### Mechanical data

|                     |                        |
|---------------------|------------------------|
| Housing material:   | Plastic                |
| Process connection: | G 1½ A PN 25           |
| Sensor material:    | Stainless steel 1.4404 |

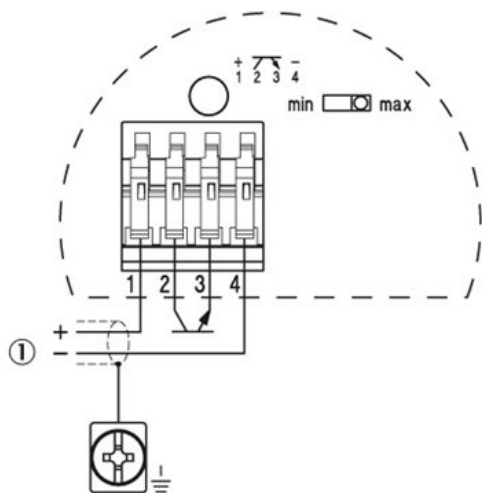
## Electrical data

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Enclosure rating:    | IP 66                                           |
| Ripple:              | $\leq 5 \text{ Vpp}$                            |
| Power consumption:   | $< 10 \text{ mA}$                               |
| Protection class:    | 1                                               |
| Initialization time: | 2 s                                             |
| Output signal:       | Transistor output PNP/ NPN: 10 V DC ... 55 V DC |
| Hysteresis:          | 10 mm                                           |
| Output current:      | $< 300 \text{ mA}$                              |
| Signal voltage HIGH: | $U_v - 3 \text{ V}$                             |
| Signal voltage LOW:  | $< 1 \text{ V}$                                 |
| Capacitive load:     | $100 \text{ } \Omega$                           |
| Inductive load:      | $\leq 1 \text{ H}$                              |
| Connection type:     | M20 x 1.5                                       |

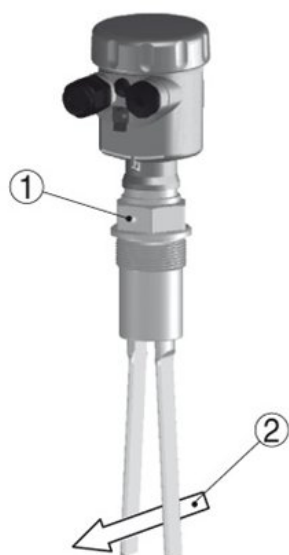
## Ambient data

|                                |                                                                  |
|--------------------------------|------------------------------------------------------------------|
| Ambient operating temperature: | $-40 \text{ }^{\circ}\text{C} \dots 80 \text{ }^{\circ}\text{C}$ |
| Ambient storage temperature:   | $-40 \text{ }^{\circ}\text{C} \dots 80 \text{ }^{\circ}\text{C}$ |

## Transistor connection diagram

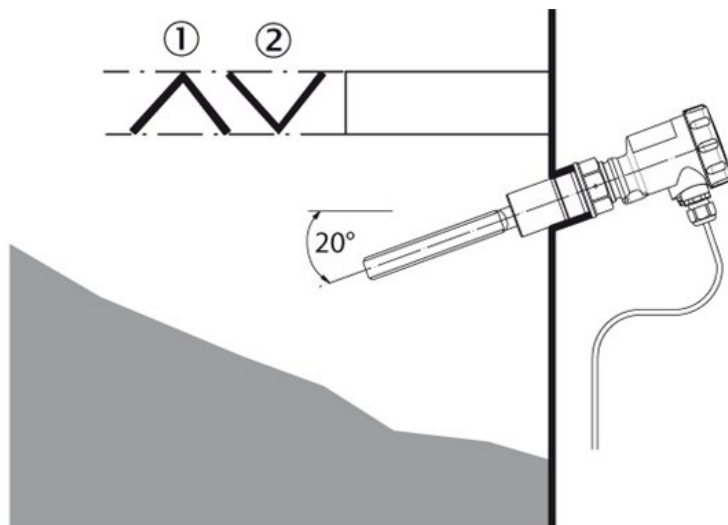


## Flow orientation of the tuning fork



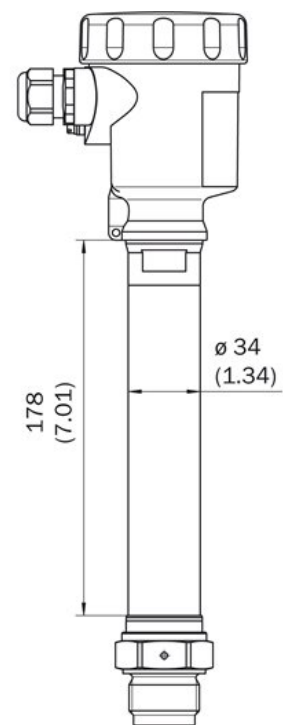
- |1| Marking with screwed version
- |2| Direction of flow

## Horizontal mounting

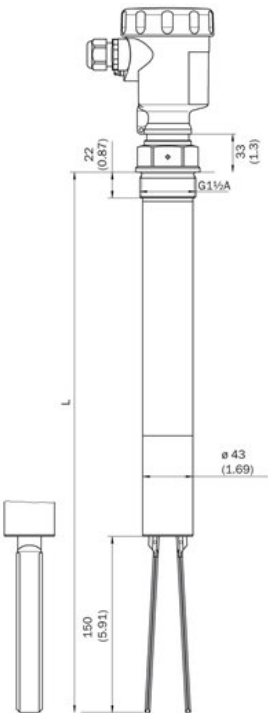


- |1| Protective sheet
- |2| Concave protective sheet for abrasive solids

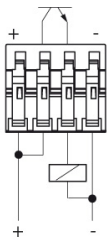
Temperature adapter



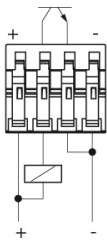
Dimensional drawing



PNP action



NPN action



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