



## Level sensors Vibrating level switch, LBV330

LBV330-GXAGDNAMX0300



**Model Name** > **LBV330-GXAGDNAMX0300**  
**Part No.** > **6039503**



*Illustration may differ*

#### 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:          | 300 mm                                                 |
| Process pressure:      | -1 bar ... 25 bar                                      |
| Process temperature:   | -50 °C ... 150 °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                                                |
| 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:   | Aluminum     |
| Process connection: | G 1½ A PN 25 |

Sensor material: Stainless steel 1.4404

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**Electrical data**

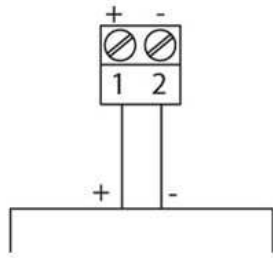
|                         |                                    |
|-------------------------|------------------------------------|
| Enclosure rating:       | IP 66/IP 67                        |
| Supply voltage:         | NAMUR signal: 4.5 V DC ... 12 V DC |
| Power consumption:      | 1 mA/2,5 mA                        |
| VDE protection class 2: | ✓                                  |
| Initialization time:    | < 2 s                              |
| Hysteresis:             | 10 mm                              |
| Output current:         | 1 mA/2,5 mA                        |
| Electrical connection:  | M20 x 1.5                          |

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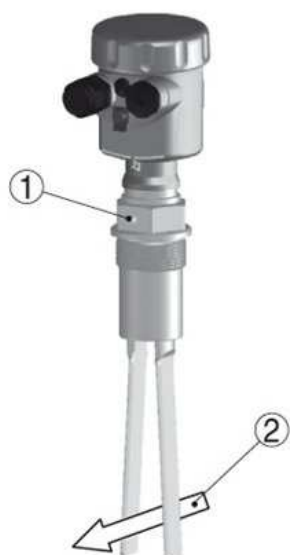
**Ambient data**

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

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**Namur connection diagram**

## Flow orientation of the tuning fork



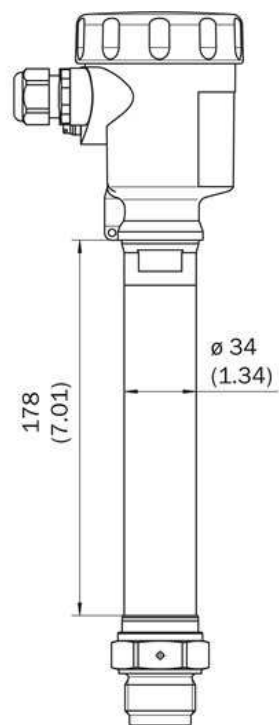
- |1| Marking with screwed version
- |2| Direction of flow

## Horizontal mounting

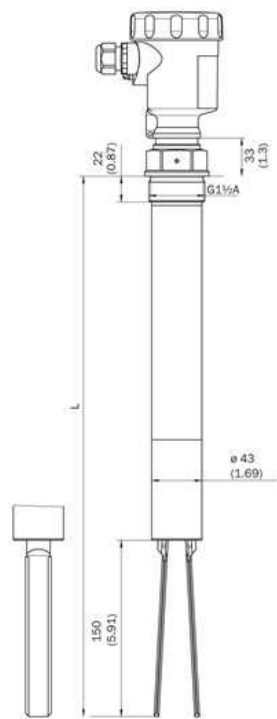


- |1| Protective sheet
- |2| Concave protective sheet for abrasive solids

Temperature adapter



Dimensional drawing



**Australia**

Phone +61 3 9457 0600  
1800 33 48 02 – tollfree  
E-Mail sales@sick.com.au

**Belgium/Luxembourg**

Phone +32 (0)2 466 55 66  
E-Mail info@sick.be

**Brasil**

Phone +55 11 3215-4900  
E-Mail marketing@sick.com.br

**Canada**

Phone +1 905 771 14 44  
E-Mail information@sick.com

**Česká republika**

Phone +420 2 57 91 18 50  
E-Mail sick@sick.cz

**China**

Phone +86 4000 121 000  
E-Mail info.china@sick.net.cn  
Phone +852-2153 6300  
E-Mail ghk@sick.com.hk

**Danmark**

Phone +45 45 82 64 00  
E-Mail sick@sick.dk

**Deutschland**

Phone +49 211 5301-301  
E-Mail info@sick.de

**España**

Phone +34 93 480 31 00  
E-Mail info@sick.es

**France**

Phone +33 1 64 62 35 00  
E-Mail info@sick.fr

**Great Britain**

Phone +44 (0)1727 831121  
E-Mail info@sick.co.uk

**India**

Phone +91-22-4033 8333  
E-Mail info@sick-india.com

**Israel**

Phone +972-4-6881000  
E-Mail info@sick-sensors.com

**Italia**

Phone +39 02 27 43 41  
E-Mail info@sick.it

**Japan**

Phone +81 (0)3 5309 2112  
E-Mail support@sick.jp

**Magyarország**

Phone +36 1 371 2680  
E-Mail office@sick.hu

**Nederland**

Phone +31 (0)30 229 25 44  
E-Mail info@sick.nl

**Norge**

Phone +47 67 81 50 00  
E-Mail sick@sick.no

**Österreich**

Phone +43 (0)22 36 62 28 8-0  
E-Mail office@sick.at

**Polska**

Phone +48 22 837 40 50  
E-Mail info@sick.pl

**România**

Phone +40 356 171 120  
E-Mail office@sick.ro

**Russia**

Phone +7-495-775-05-30  
E-Mail info@sick.ru

**Schweiz**

Phone +41 41 619 29 39  
E-Mail contact@sick.ch

**Singapore**

Phone +65 6744 3732  
E-Mail sales.gsg@sick.com

**Slovenija**

Phone +386 (0)1-47 69 990  
E-Mail office@sick.si

**South Africa**

Phone +27 11 472 3733  
E-Mail info@sickautomation.co.za

**South Korea**

Phone +82 2 786 6321/4  
E-Mail info@sickkorea.net

**Suomi**

Phone +358-9-25 15 800  
E-Mail sick@sick.fi

**Sverige**

Phone +46 10 110 10 00  
E-Mail info@sick.se

**Taiwan**

Phone +886 2 2375-6288  
E-Mail sales@sick.com.tw

**Türkiye**

Phone +90 (216) 528 50 00  
E-Mail info@sick.com.tr

**United Arab Emirates**

Phone +971 (0) 4 88 65 878  
E-Mail info@sick.ae

**USA/México**

Phone +1(952) 941-6780  
1 (800) 325-7425 – tollfree  
E-Mail info@sickusa.com

More representatives and agencies  
at [www.sick.com](http://www.sick.com)