



## Level sensors Vibrating level switch, LFV230

LFV230-XASGBTPM0300



**Model Name** > LFB230-XASGBTPM0300  
**Part No.** > 6043956



*Illustration may differ*

#### At a glance

- Housing made of 316L stainless steel
- Two electrical output versions available
- Commissioning without filling
- Process temperature up to 150 °C
- Immune to deposit formation
- Very high repeatability
- Aseptic versions with polished surface, CIP and SIP resistant
- Tube extension up to 6 m

#### 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
- Universal technology works in all kinds of liquids
- Economical solution for vertical mounting, reduces costs
- Vertical mounting protects against leaks



#### Features

|                        |                         |
|------------------------|-------------------------|
| Medium:                | Fluids                  |
| Measurement:           | Switch                  |
| Probe length:          | 300 mm                  |
| Process pressure:      | -1 bar ... 64 bar       |
| Process temperature:   | -40 °C ... +100 °C      |
| Silicon free:          | -                       |
| Authorizations:        | WHG approval            |
| WHG approval:          | ✓                       |
| Fill material density: | ≥ 0.7 g/cm <sup>3</sup> |

#### Performance

|                             |                          |
|-----------------------------|--------------------------|
| Resolution:                 | ≤ 1 mm                   |
| Accuracy of sensor element: | ± 2 mm                   |
| Repeatability:              | ≤ 1 mm                   |
| Viscosity:                  | 0.1 mPas ... 10,000 mPas |
| Response time:              | 500 ms                   |

### Mechanical data

|                     |                             |
|---------------------|-----------------------------|
| Housing material:   | Stainless steel 1.4404, PEI |
| Process connection: | G 3/4 A PN 64               |
| Wetted parts:       | 316L (optional Ra < 0.8 µm) |

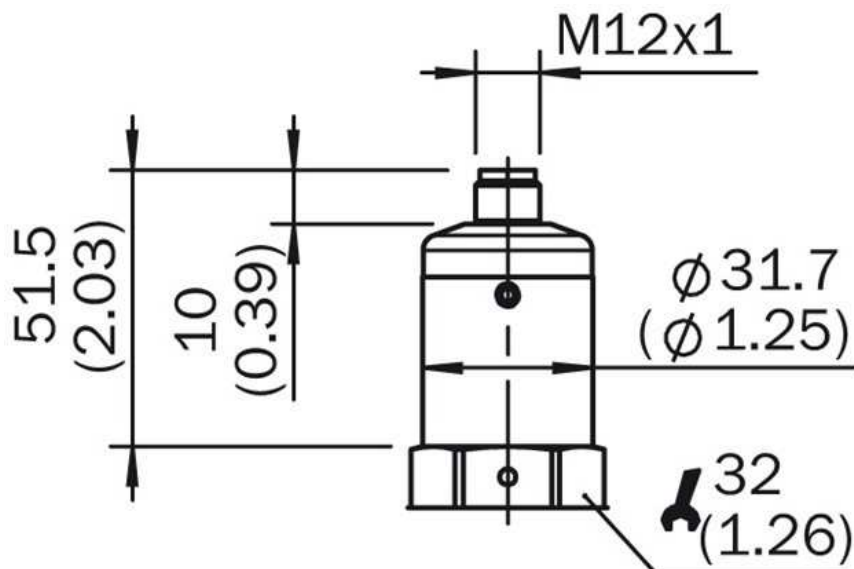
### Electrical data

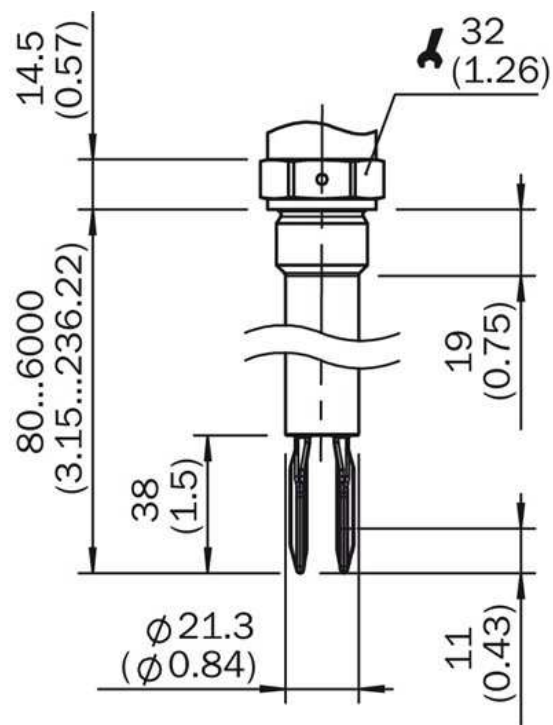
|                         |                                |
|-------------------------|--------------------------------|
| Temperature drift:      | 0,03 mm/K                      |
| Enclosure rating:       | IP 67                          |
| Supply voltage:         | 10 V DC ... 55 V DC            |
| Residual ripple:        | ≤ 5 Vpp                        |
| Power consumption:      | < 10 mA                        |
| VDE protection class 2: | ✓                              |
| Initialization time:    | < 2 s                          |
| Hysteresis:             | 2 mm                           |
| Output current:         | < 250 mA                       |
| Signal voltage HIGH:    | Vs - < 3 V                     |
| Signal voltage LOW:     | 0 V +- 1 V                     |
| Capacitive load:        | 100 nF                         |
| Inductive load:         | ≤ 1 H                          |
| Electrical connection:  | Round connector M12 x 1, 4-pin |

### Ambient data

|                                |                   |
|--------------------------------|-------------------|
| Ambient temperature operation: | -40 °C ... +70 °C |
| Ambient storage temperature:   | -40 °C ... +80 °C |

### Dimensional drawing housing





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