



## Level sensors Vibrating level switch, LFV230

LFV230-XXSNBTMPM1100



**Model Name** > LFB230-XXSNBTPM1100  
**Part No.** > 6041863



*Product may differ  
from illustration*

#### 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:          | 1,100 mm          |
| Process pressure:      | -1 bar ... 64 bar |
| Process temperature:   | -40 °C ... 100 °C |
| Silicon free:          | -                 |
| Fill material density: | 0.7               |

#### Performance

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

### Mechanical data

|                     |                             |
|---------------------|-----------------------------|
| Aseptic:            | -                           |
| Housing material:   | Stainless steel 1.4404, PEI |
| Process connection: | 3/4" NPT 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         |
| Ripple:              | ≤ 5 Vpp                     |
| Power consumption:   | < 10 mA                     |
| Protection class:    | 1                           |
| 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 H                       |
| Inductive load:      | ≤ 1 H                       |
| Connection type:     | M12x1 plug connector, 4-pin |

### Ambient data

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

### Dimensional drawing housing



All dimensions in mm (inch)



All dimensions in mm (inch)

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