



Level sensors Vibrating level switch, LFV230

LFV230-XXTNBTPM0500



Model Name > [LFV230-XTNBTPM0500](#)
Part No. > [6041896](#)



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:	500 mm
Process pressure:	-1 bar ... 64 bar
Process temperature:	-40 °C ... +150 °C
Silicon free:	-
Fill material density:	$\geq 0.7 \text{ g/cm}^3$

Performance

Resolution:	$\leq 1 \text{ mm}$
Accuracy of sensor element:	$\pm 2 \text{ mm}$
Repeatability:	$\leq 1 \text{ mm}$
Viscosity:	0.1 mPas ... 10,000 mPas
Response time:	500 ms

Mechanical data

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

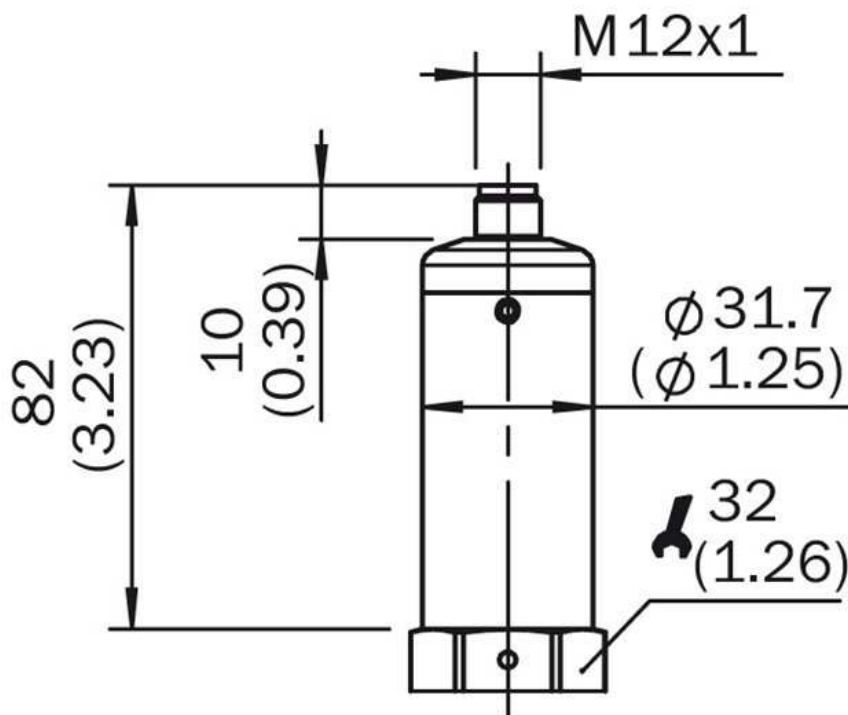
Electrical data

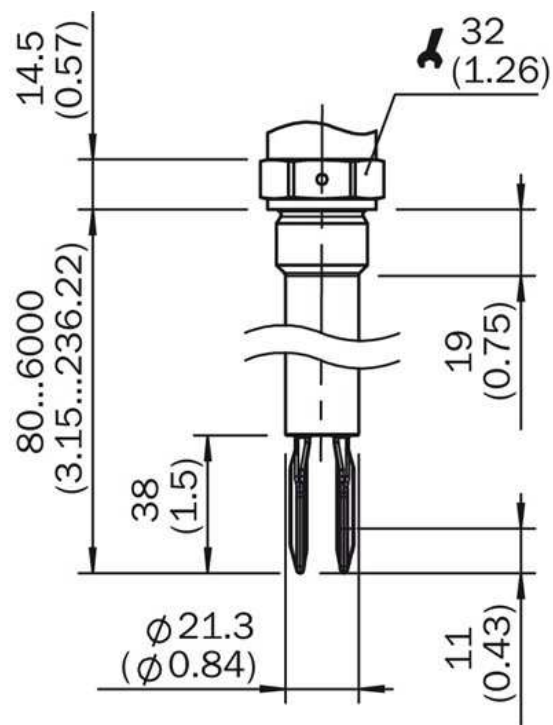
Temperature drift:	0,03 mm/K
Enclosure rating:	IP 67
Supply voltage:	10 V DC ... 55 V DC
Residual ripple:	≤ 5 Vpp
Power consumption:	< 10 mA
VDE protection class 2:	✓
Initialization time:	< 2 s
Hysteresis:	2 mm
Output current:	< 250 mA
Signal voltage HIGH:	Vs - < 3 V
Signal voltage LOW:	0 V +/- 1 V
Capacitive 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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