



Level sensors Vibrating level switch, LFV310

LFV310-XXRBPXPTL



Model Name > LFV310-XXRBPXPTL
Part No. > 6041643



*Product may differ
from illustration*

At a glance

- Several housing materials and electrical outputs available
- Commissioning without filling
- Process temperature up to 250 °C
- Immune to deposit formation
- Very high repeatability
- Aseptic versions according to EHEDG and FDA available, CIP and SIP resistant
- ATEX and marine certifications 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 tough system for a multitude of applications
- Universal technology works in all kinds of liquids



Features

Medium:	Fluids
Measurement:	Switch
Probe length:	118 mm
Process pressure:	-1 bar ... 64 bar
Process temperature:	-50 °C ... 150 °C
Fill material density:	0.5 ... 2.5

Performance

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

Mechanical data

Housing material:	Plastic
Process connection:	Conical coupling DN 50 acc. to DIN 11851 with union nut (PN 40, 316L, Ra < 0.8 µm)
Wetted parts:	Stainless steel 316L (optional Ra ≤ 0.8 µm)
Sensor material:	Stainless steel 1.4404

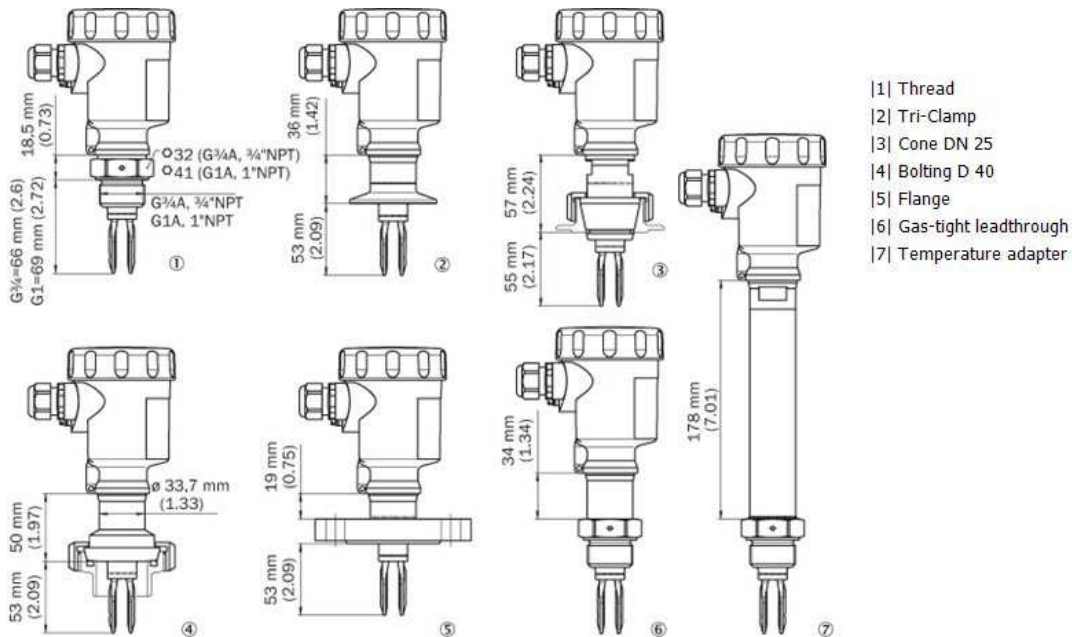
Electrical data

Temperature drift:	0,03 mm/K
Enclosure rating:	IP 66
Residual ripple:	≤ 5 Vpp
Power consumption:	< 10 mA
Protection class:	0, 1
Initialization time:	2
Output signal:	Transistor output PNP/ NPN: 10 V DC ... 55 V DC
Hysteresis:	2 mm
Output current:	< 300 mA
Signal voltage HIGH:	Uv - 3 V
Signal voltage LOW:	< 1 V
Capacitive load:	100
Inductive load:	1 H
Electrical connection:	M20 x 1.5

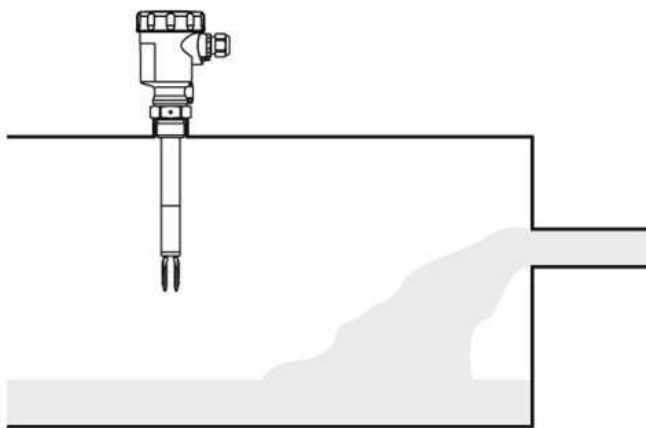
Ambient data

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

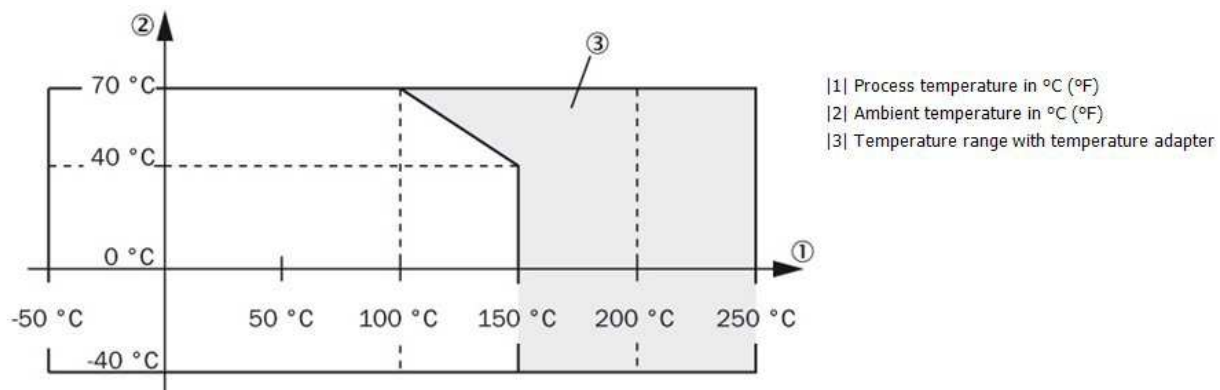
Dimensional drawing



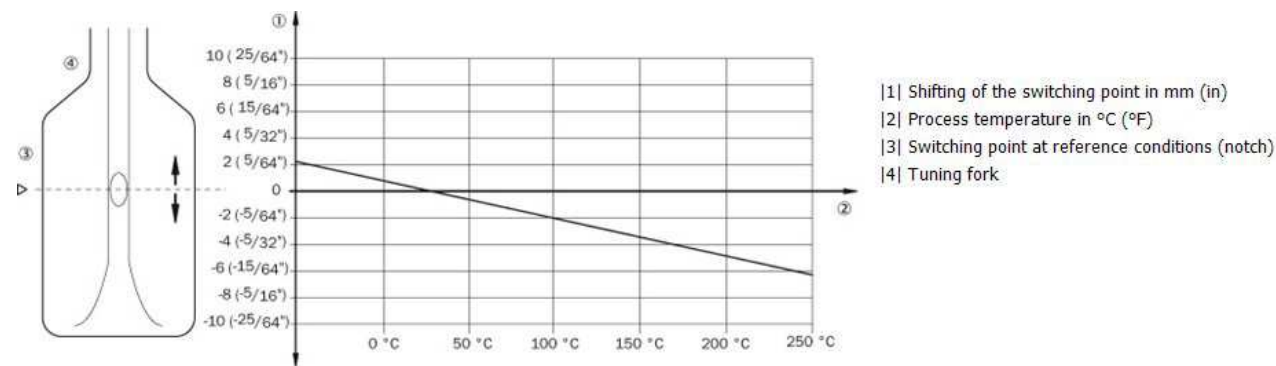
Instruction for installation



Ambient temperature - process temperature



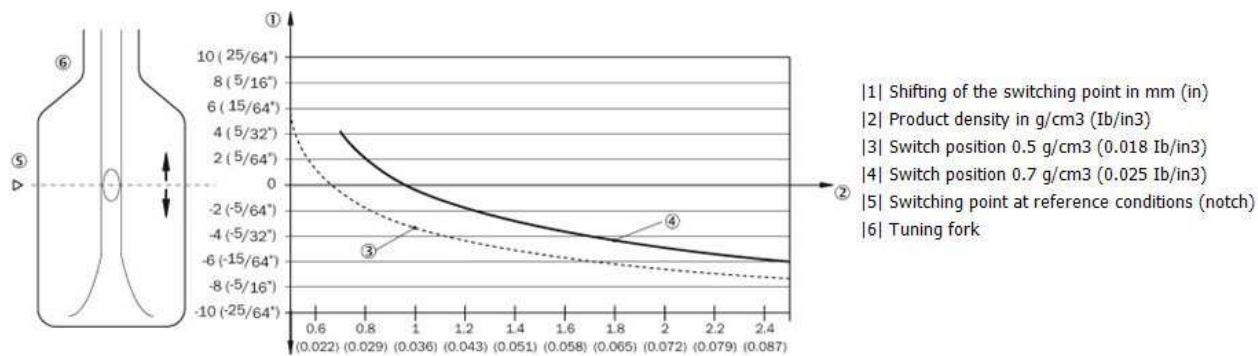
Influence of the process temperature on the switching point



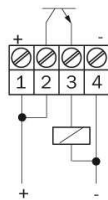
Influence of the process temperature to the switching point



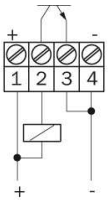
Influence of the product density on the switching point



PNP action



NPN action



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