



Level sensors Vibrating level switch, LFV310

LFV310-XXGBVTPCX



Model Name > LFV310-XXGBVTPCX
Part No. > 6037999



*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:	66 mm
Process pressure:	-1 bar ... 64 bar
Process temperature:	-50 °C ... 250 °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:	G ¾ A PN 64/316L
Wetted parts:	Stainless steel 316L (optional Ra ≤ 0.8 µm)
Sensor material:	Stainless steel 1.4404

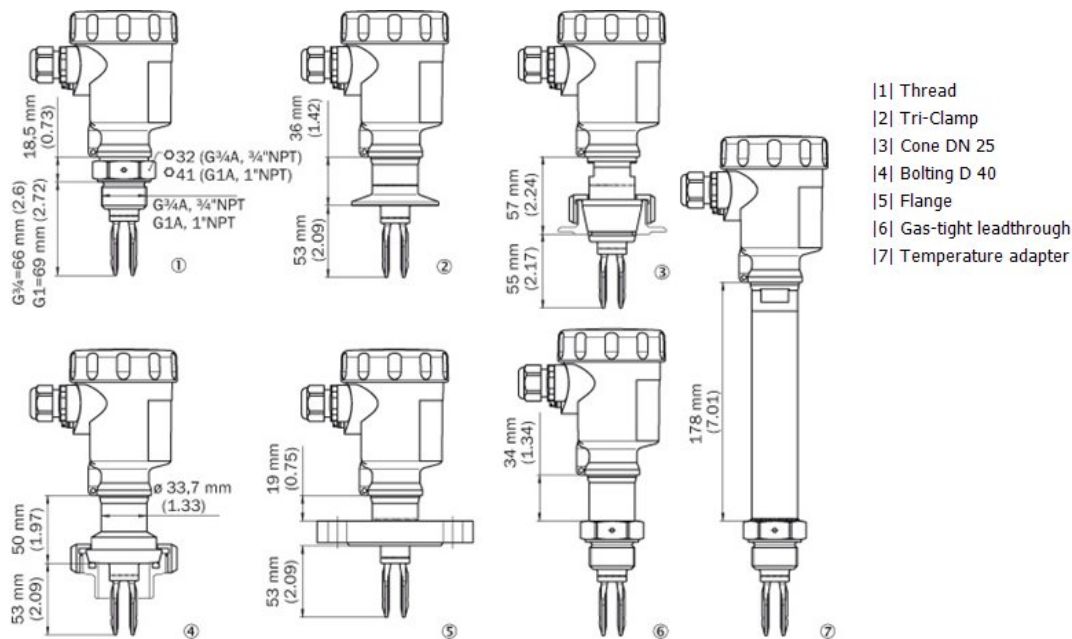
Electrical data

Temperature drift:	0,03 mm/K
Enclosure rating:	IP 66
Power consumption:	< 4.2 mA
Protection class:	0, 1
Initialization time:	3
Output signal:	Contactless electronic switch: 20 V AC/DC ... 253 V AC/DC
Hysteresis:	2 mm
Output current:	< 400 mA
Capacitive load:	100
Inductive load:	1 H
Connection type:	M20 x 1.5

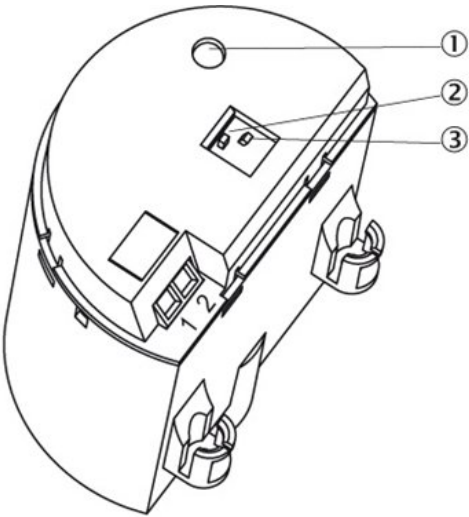
Ambient data

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

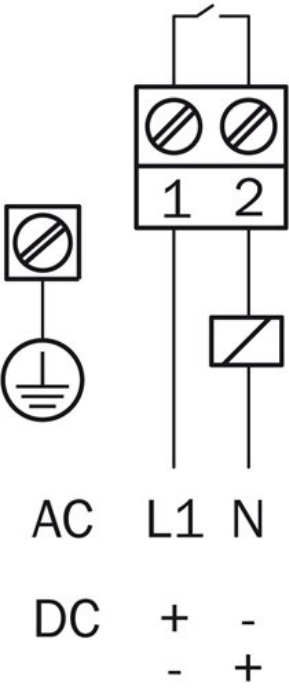
Dimensional drawing



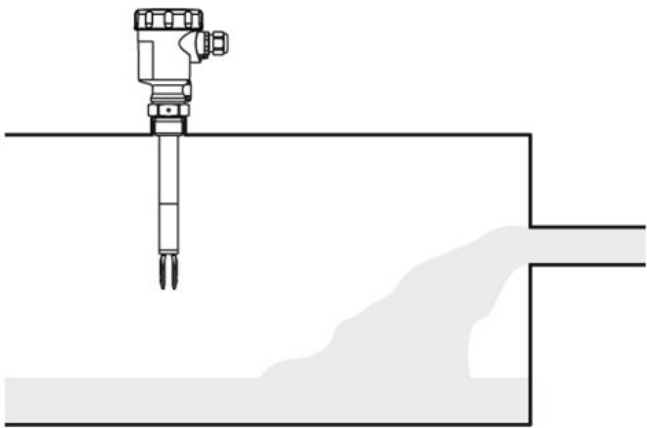
Electronic module



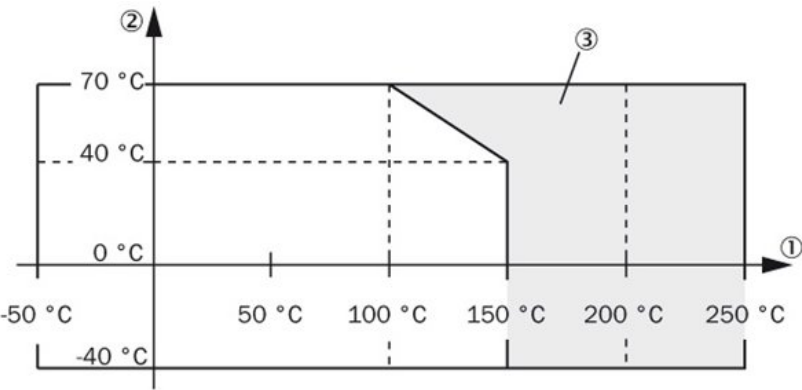
Contactless electronic switch connection diagram



Instruction for installation

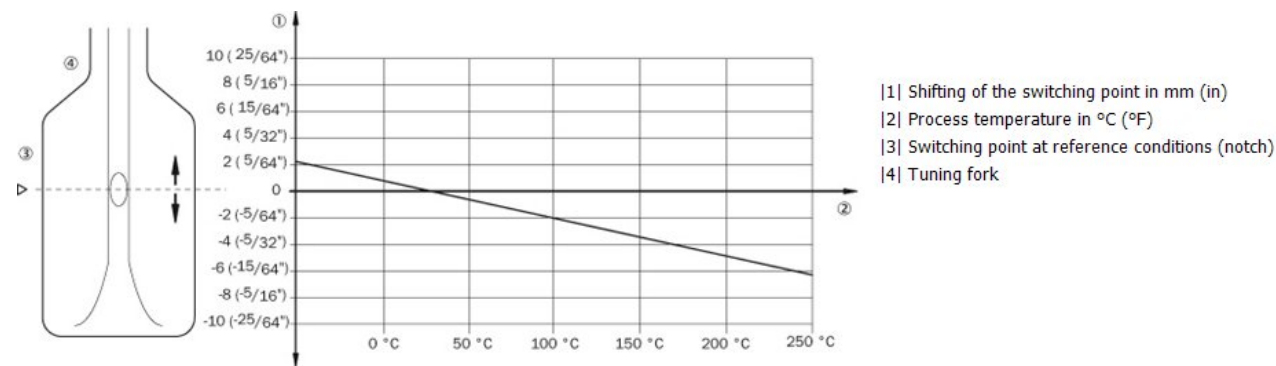


Ambient temperature - process temperature



- [1] Process temperature in °C (°F)
- [2] Ambient temperature in °C (°F)
- [3] Temperature range with temperature adapter

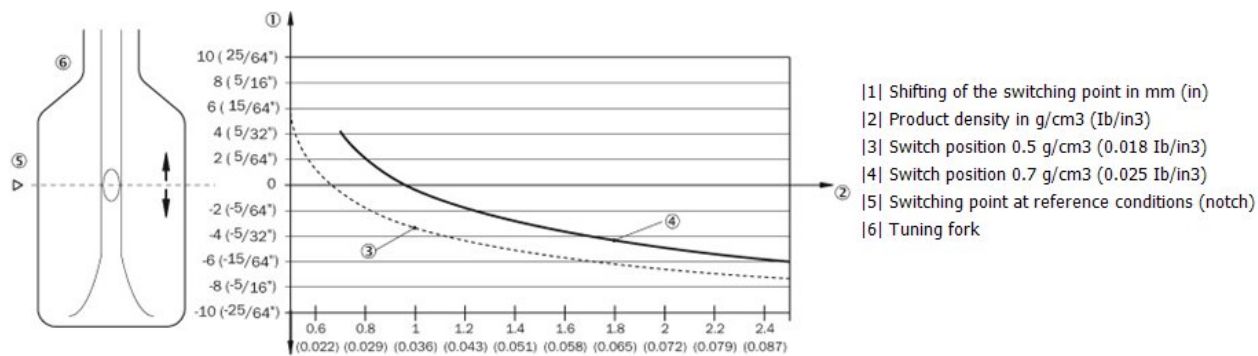
Influence of the process temperature on the switching point



Influence of the process temperature to the switching point



Influence of the product density on the switching point



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