



Level sensors Vibrating level switch, LFV310

LFV310-DAGAVXMTX



Model Name > LFV310-DAGAVXMTX
Part No. > 6042770



Illustration may differ

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 ... 150 °C
WHG approval:	✓
ATEX approval:	ATEX II 1/2G, 2G Ex d IIC T6
GOST approval:	✓
Fill material density:	0.5 g/cm ³ ... 2.5 g/cm ³
Type examination:	TÜV 09 ATEX 372527 X

Performance

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

Mechanical data

Housing material:	Aluminum
Process connection:	G 1 A PN 64
Wetted parts:	Stainless steel 316L (optional $Ra \leq 0.8 \mu m$)
Sensor material:	Stainless steel 1.4404

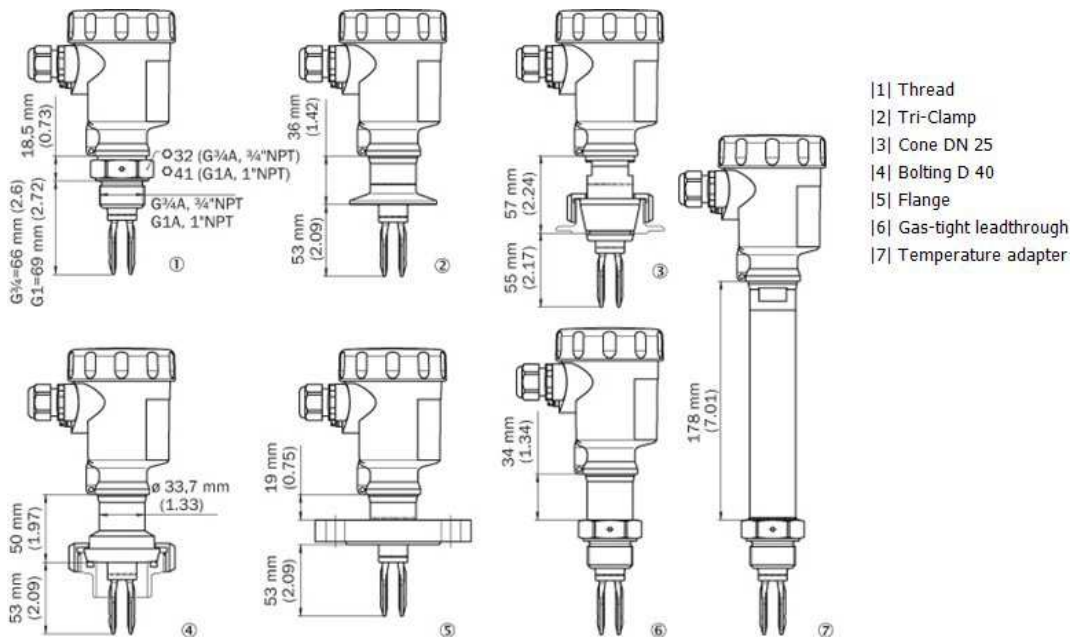
Electrical data

Temperature drift:	0,03 mm/K
Enclosure rating:	IP 66/IP 67
Supply voltage:	Transistor output PNP/ NPN: 10 V DC ... 55 V DC
Residual ripple:	$\leq 5 V_{pp}$
Power consumption:	$< 10 \text{ mA}$
VDE protection class 1:	-
VDE protection class 2:	✓
Initialization time:	$< 2 \text{ s}$
Hysteresis:	2 mm
Output current:	$< 300 \text{ mA}$
Signal voltage HIGH:	$U_v - 3 \text{ V}$
Signal voltage LOW:	$< 1 \text{ V}$
Capacitive load:	100 nF
Inductive load:	$\leq 1 \text{ H}$
Electrical connection:	M20 x 1.5

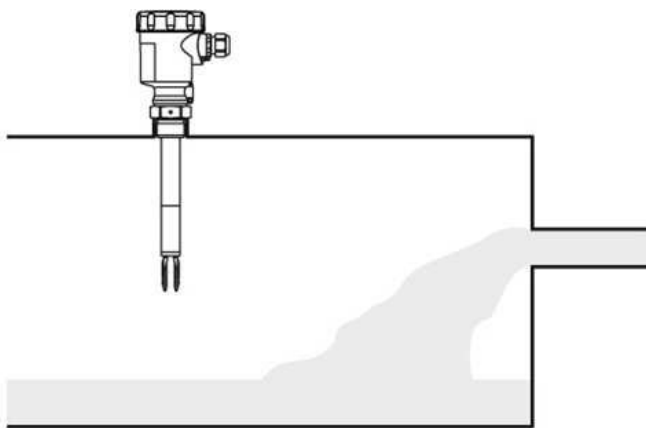
Ambient data

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

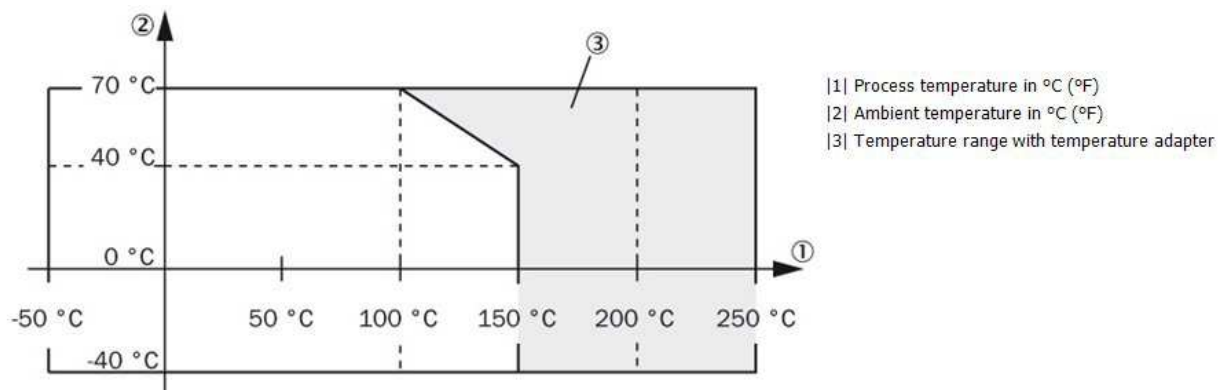
Dimensional drawing



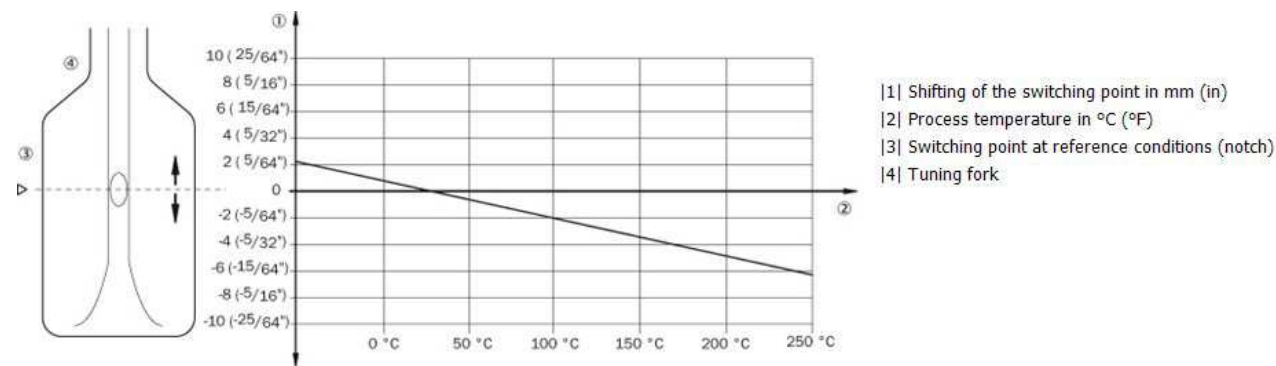
Instruction for installation



Ambient temperature - process temperature



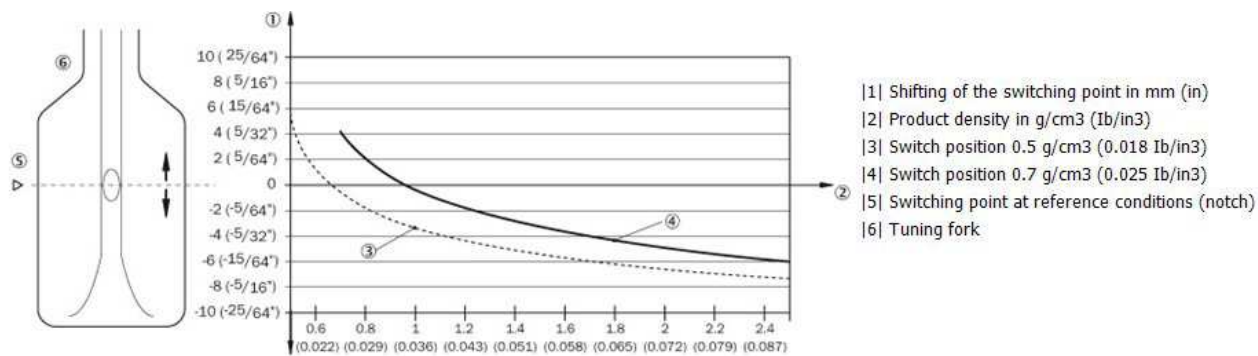
Influence of the process temperature on the switching point



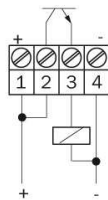
Influence of the process temperature to the switching point



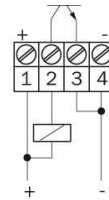
Influence of the product density on the switching point



PNP action



NPN action



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