



Level sensors Vibrating level switch, LFV310

LFV310-CAGBVXZCX



Model Name > LFV310-CAGBVXZCX
Part No. > 6040923



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 1G, 1/2G, 2G Ex ia IIC T6
Fill material density:	0.5 ... 2.5
Type examination:	TÜV 09 ATEX 372528 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 ¾ A PN 64/316L

Wetted parts:
Sensor material:

Stainless steel 316L (optional $Ra \leq 0.8 \mu m$)
Stainless steel 1.4404

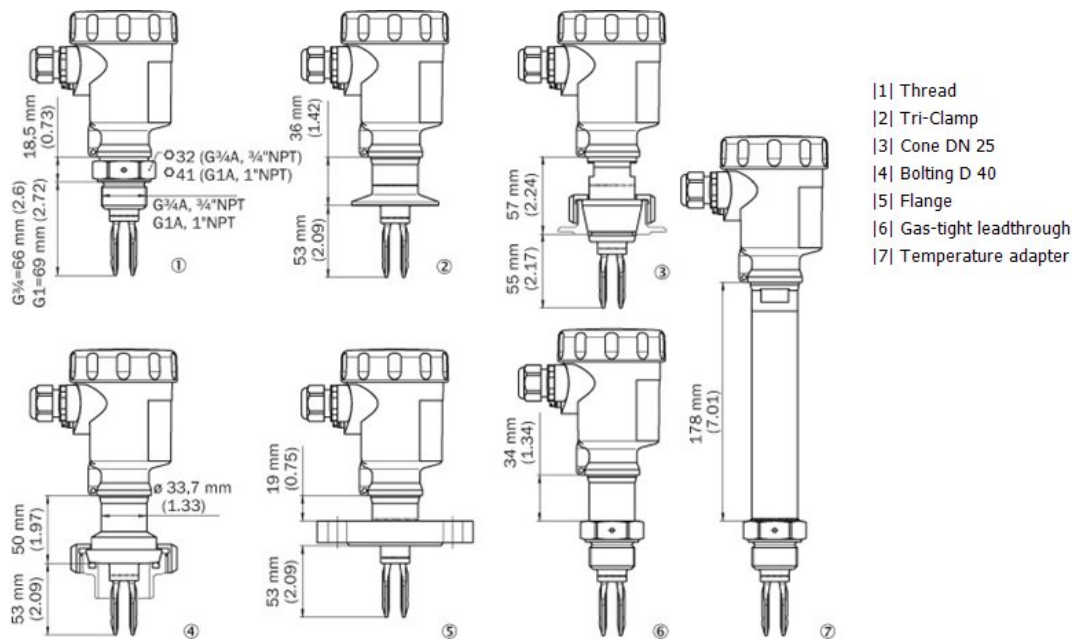
Electrical data

Temperature drift:	0,03 mm/K
Enclosure rating:	IP 66
Power consumption:	< 4.2 mA
VDE protection class 1:	✓
VDE protection class 2:	-
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:	M12x1 (4-pin)

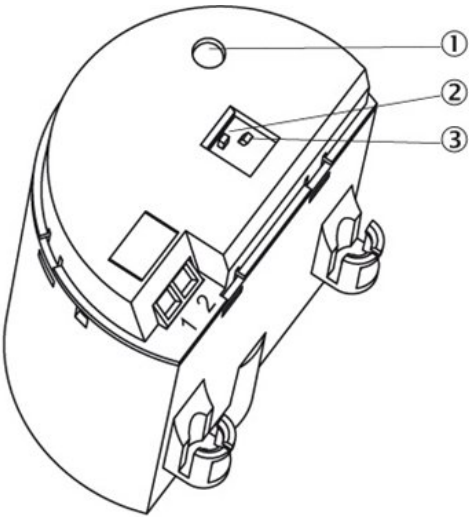
Ambient data

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

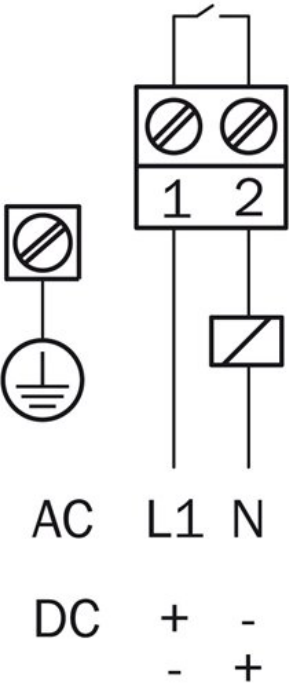
Dimensional drawing



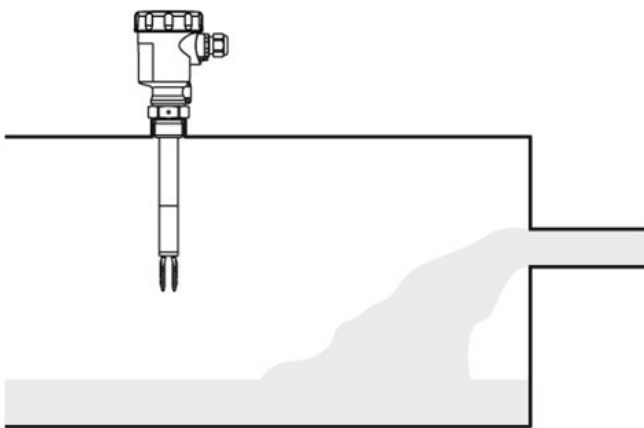
Electronic module



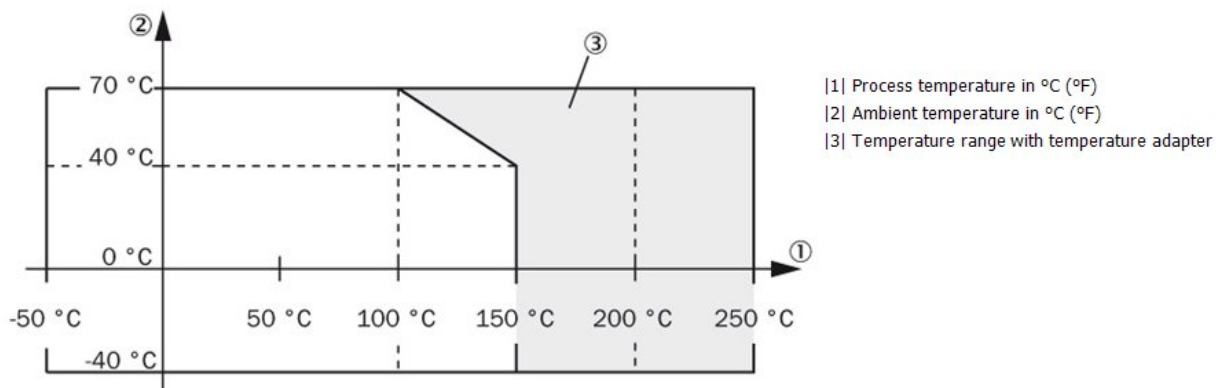
Contactless electronic switch connection diagram



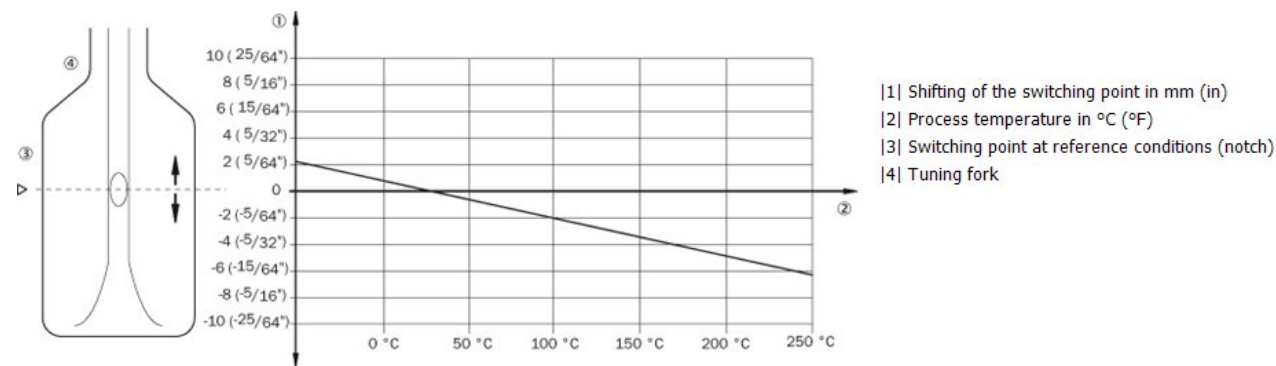
Instruction for installation



Ambient temperature - process temperature



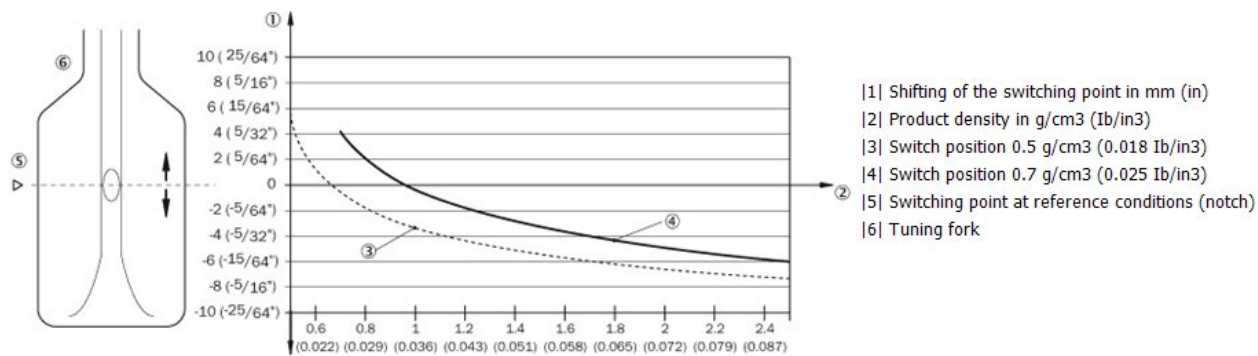
Influence of the process temperature on the switching point



Influence of the process temperature to the switching point



Influence of the product density on the switching point



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