



Level sensors  
Vibrating level switch, LFB330

LFB330-XXGBVXVTX0150



**Model Name** > LFB330-XXGBVXVTX0150  
**Part No.** > 6041324



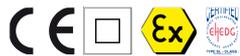
*Product may differ from illustration*

**At a glance**

- Several housing materials and electrical outputs available
- Commissioning without filling
- Process temperature up to 250 °C
- Tube extension up to 6 m
- 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 robust system for a multitude of applications
- Tube extension allows for safe vertical mounting
- Universal technology works in all kinds of liquids



**Features**

Medium:	Fluids
Measurement:	Switch
Probe length:	150 mm
Process pressure:	-1 bar ... 64 bar
Process temperature:	-50 °C ... 150 °C
WHG approval:	-
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:	Stainless steel (casted) 316L
Process connection:	G 3/4 A PN 64/316L

Wetted parts: Stainless steel 316L (optional Ra ≤ 0.8 μm)  
 Sensor material: Stainless steel 1.4404

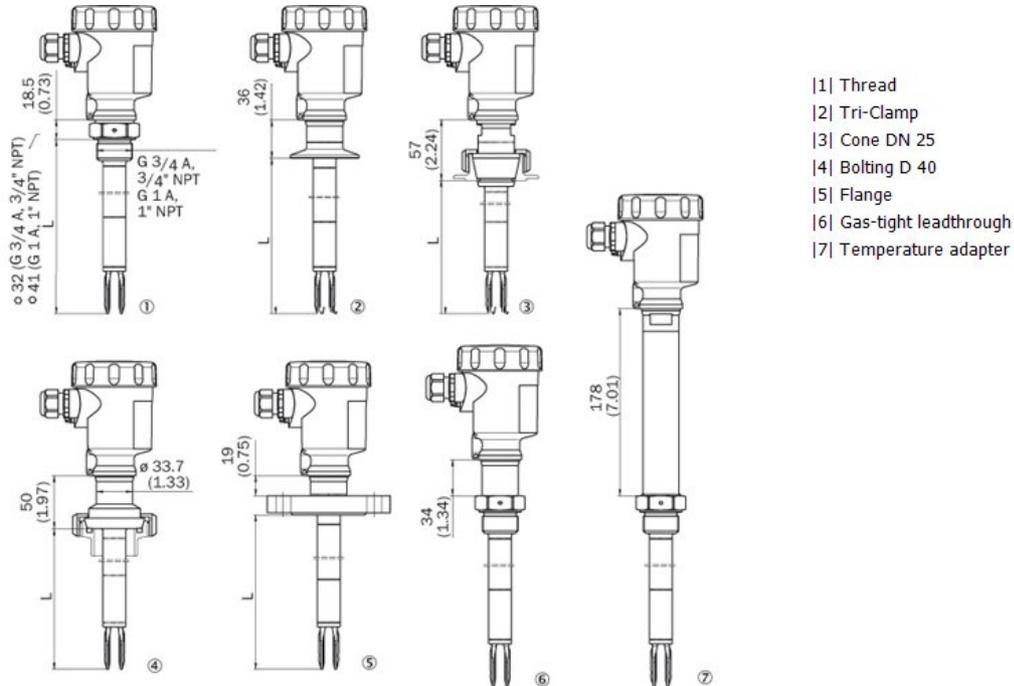
### Electrical data

Temperature drift: 0,03 mm/K  
 Enclosure rating: IP 66  
 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  
 Connection type: M20 x 1.5

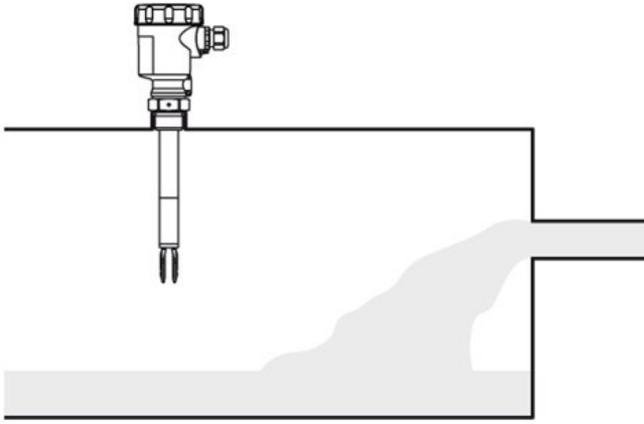
### Ambient data

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

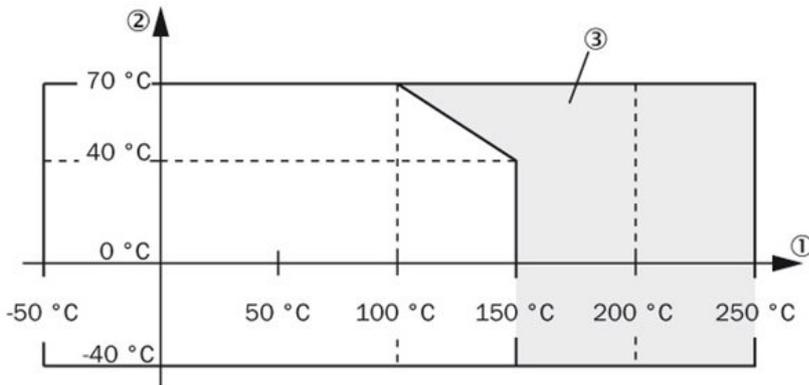
### Dimensional drawing



## Instruction for installation

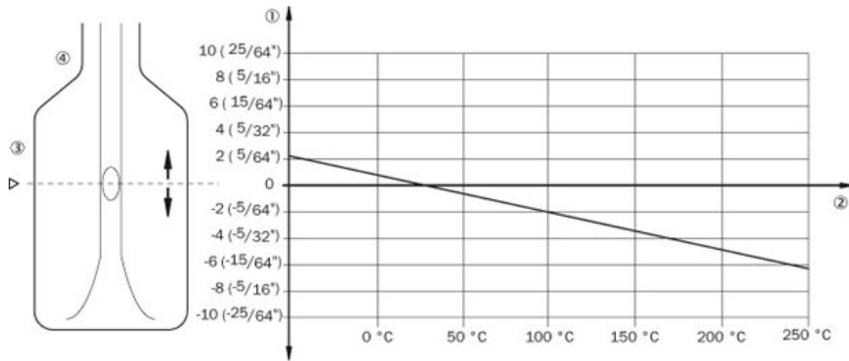


## Ambient temperature - process temperature



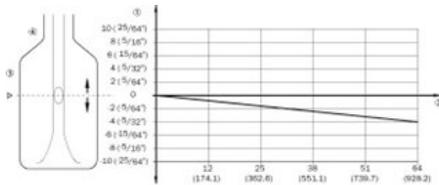
- [1] Process temperature in °C (°F)
- [2] Ambient temperature in °C (°F)
- [3] Temperature range with temperature adapter

## Influence of the process temperature on the switching point



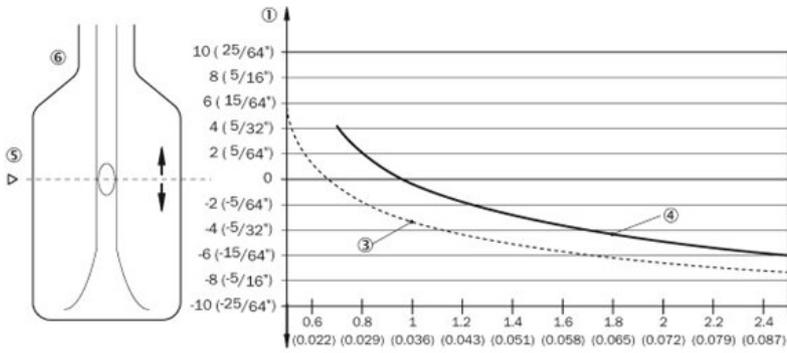
- |1| Shifting of the switching point in mm (in)
- |2| Process temperature in °C (°F)
- |3| Switching point at reference conditions (notch)
- |4| Tuning fork

## Influence of the process temperature to the switching point



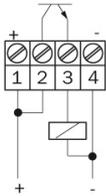
- |1| Shifting of the switching point in mm (in)
- |2| Process pressure in bar (psig)
- |3| Switching point at reference conditions (notch)
- |4| Tuning fork

## Influence of the product density on the switching point

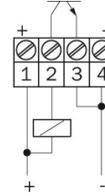


- [1] Shifting of the switching point in mm (in)
- [2] Product density in g/cm<sup>3</sup> (lb/in<sup>3</sup>)
- [3] Switch position 0.5 g/cm<sup>3</sup> (0.018 lb/in<sup>3</sup>)
- [4] Switch position 0.7 g/cm<sup>3</sup> (0.025 lb/in<sup>3</sup>)
- [5] Switching point at reference conditions (notch)
- [6] Tuning fork

## PNP action



## NPN action



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