



Level sensors Vibrating level switch, LBV321

LBV321-XXTGCKMX01000



Model Name > [LBV321-XXTGCKMX01000](#)
Part No. > [6044868](#)



Illustration may differ

At a glance

- Rugged device design with rope extension up to 80 m
- Several housing materials and electrical outputs available
- Monoprobe design prevents bulk materials from sticking and jamming
- Commissioning without filling
- Process temperature up to 150 °C
- Very high repeatability
- ATEX versions (1D/2D/1G/2G) available

Your benefits

- Vertical mounting in difficult installation conditions
- Easy installation - no need to calibrate for the material
- Easy operation and integration, saves time
- Monoprobe design for continual operation in challenging materials
- On-site testing - no mounting required, which reduces installation time
- Flexible, rugged system suitable for several types of applications



Features

Medium:	Bulk solids
Measurement:	Switch
Probe length:	1,000 mm
Process pressure:	-1 bar ... 6 bar
Process temperature:	-20 °C ... 80 °C
ATEX certification:	-
Fill material density:	0.02 g/cm ³
Tensile strength:	≤ 3,000 N

Performance

Accuracy of sensor element:	± 10 mm
Repeatability:	≤ 5 mm
Response time:	500 ms when covered / 1000 ms when uncovered

Mechanical data

Housing material:	Plastic
Process connection:	G 1 A
Sensor material:	Stainless steel 316L, 318S, PUR, FEB

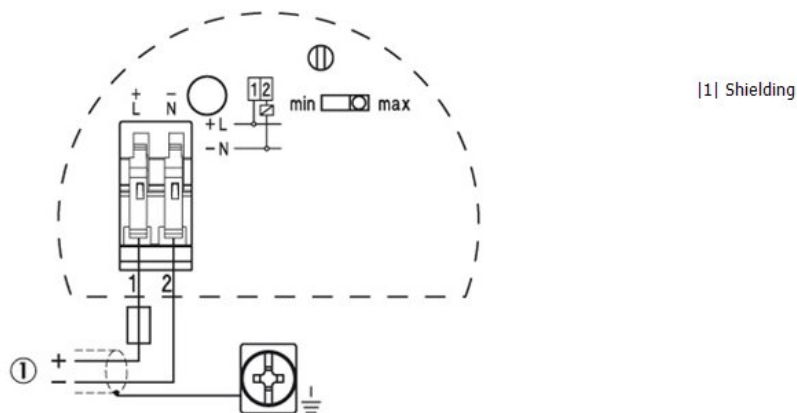
Electrical data

Enclosure rating:	IP 66/IP 67, IP 66/IP 68 (0.2 bar)
Power consumption:	< 4.2 mA
VDE protection class 1:	✓
Initialization time:	< 3 s
Output signal:	Contactless electronic switch: 20 V AC/DC ... 253 V DC
Hysteresis:	10 mm
Output current:	< 400 mA
Capacitive load:	100 nF
Inductive load:	1 H
Connection type:	M20 x 1.5

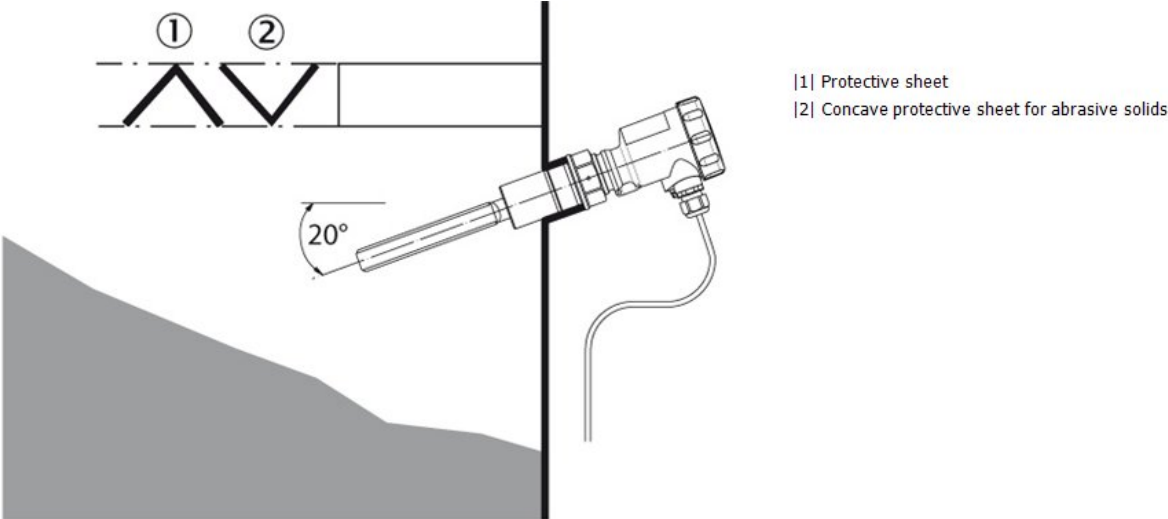
Ambient data

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

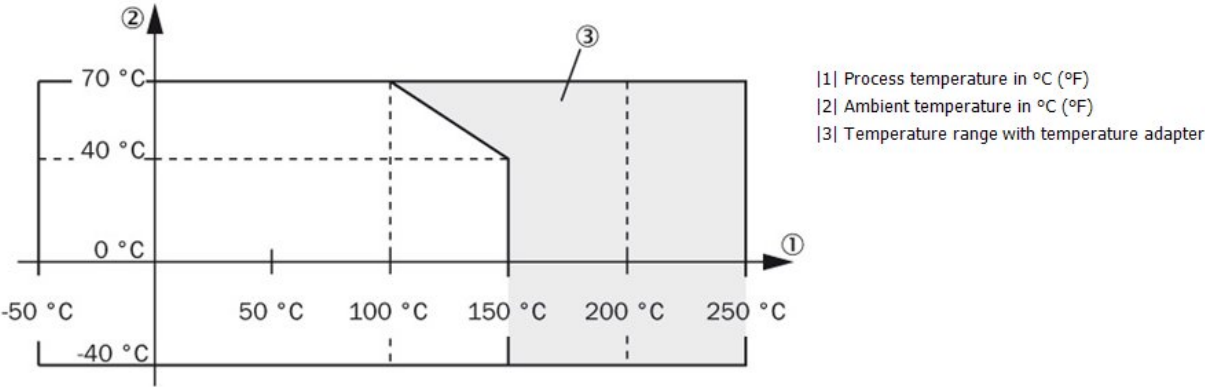
Contactless electronic switch connection diagram



Horizontal mounting



Ambient temperature - process temperature



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