



Level sensors Vibrating level switch, LBV311

LBV311-XXAGCTKMX



Model Name > [LBV311-XXAGCTKMX](#)
Part No. > [6044865](#)



Illustration may differ

At a glance

- Compact, rugged device design
- Several housing materials and electrical outputs available
- Monoprobe design prevents bulk materials from sticking and jamming
- No sensor orientation requirements when mounted
- Commissioning without filling
- Process temperature up to 250 °C
- Polished versions for use in the food industry
- ATEX versions (1D/2D/1G/2G) available

Your benefits

- Easy installation, no orientation of the sensor required
- Easy operation and integration, saves time
- Monoprobe design for continual operation in challenging materials
- Simple, on-site sensor checking - no mounting required, which reduces installation time
- Flexible, rugged system suitable for several types of applications



Features

Medium:	Bulk solids
Measurement:	Switch
Probe length:	160 mm
Process pressure:	-1 bar ... 16 bar
Process temperature:	-50 °C ... 150 °C
ATEX certification:	-
Fill material density:	0.02 g/cm ³

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

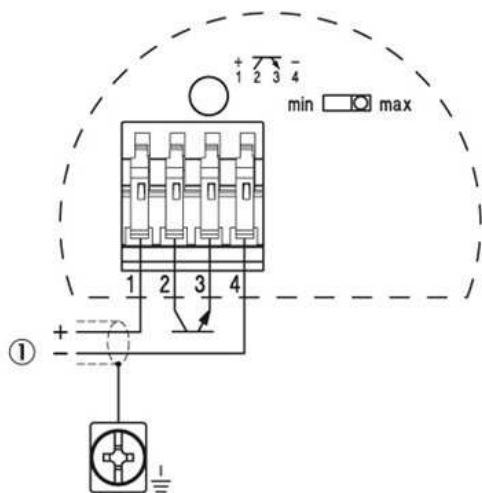
Electrical data

Enclosure rating:	IP 66/IP 67, IP 66/IP 68 (0.2 bar)
Residual ripple:	$\leq 5 \text{ Vpp}$
Power consumption:	$\leq 10 \text{ mA}$
VDE protection class 2:	✓
Initialization time:	$< 2 \text{ s}$
Output signal:	Transistor output PNP/ NPN: 10 V DC ... 55 V DC
Hysteresis:	10 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:	1 H
Electrical connection:	M20 x 1.5

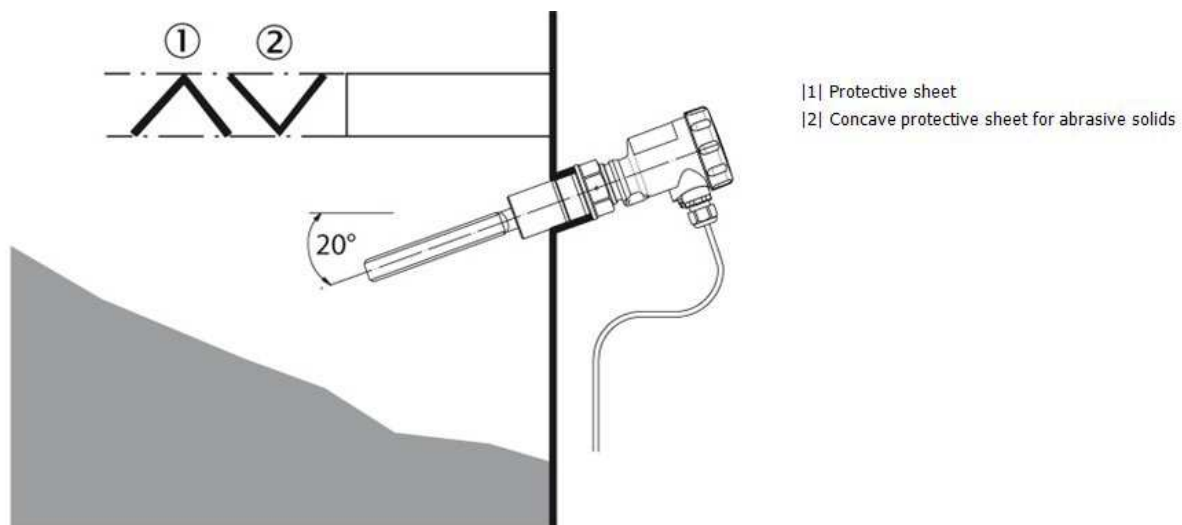
Ambient data

Ambient temperature operation:	$-40 \text{ }^{\circ}\text{C} \dots 70 \text{ }^{\circ}\text{C}$
Ambient storage temperature:	$-40 \text{ }^{\circ}\text{C} \dots 80 \text{ }^{\circ}\text{C}$

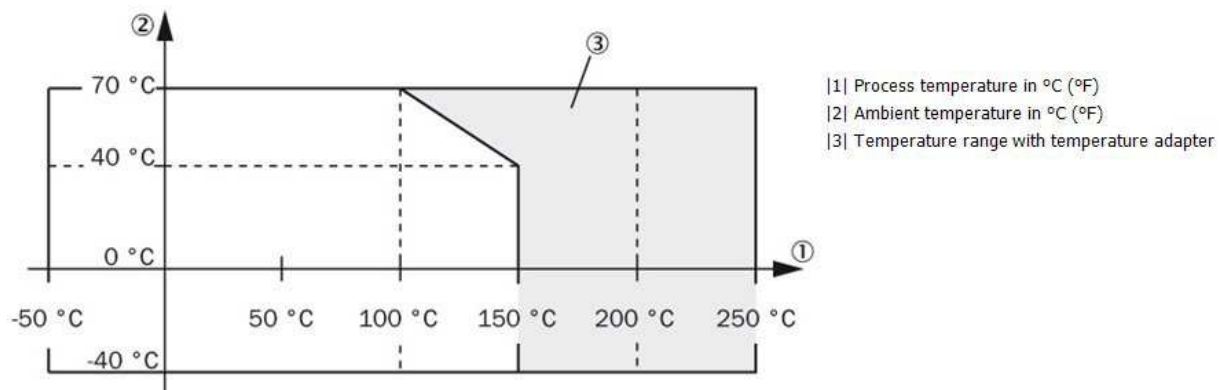
Transistor connection diagram



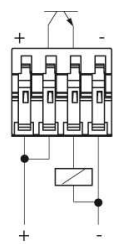
Horizontal mounting



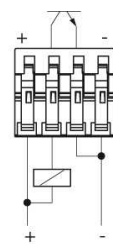
Ambient temperature - process temperature



PNP action



NPN action



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