

Appliance information

any mounting position

The Vibro level indicators are indicating the filling level as a limit switch in silos and containers.

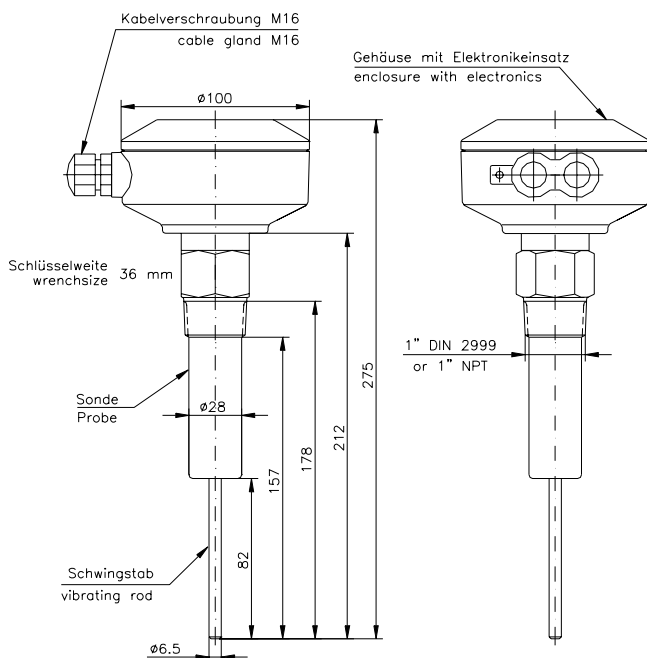
Use

The **VF06** vibrating limit switch is used for indicating the level in silos and containers, which are filled with bulk goods resp. granules.

Due to the compact design and little internal length the **VF06** is especially well qualified for use in small containers and vessels or hoppers and everywhere limited mounting space is dedicated.

A typical application is e.g. the use of two **VF06** as full- and empty indicator in small dosing hoppers.

Dimensions



Function

The electronics of the **VF06** excites the vibrating rod to vibrate on its resonance frequency of approx. 460 Hz.

If material covers the vibrating rod, the vibration will be attenuated. This is sensed by the electronics and it will actuate a relay.

If the filling level sinks, the vibrating rod will swing on its resonance frequency again and the relay will switch back.

Technical Data

Materials	housing	Aluminium
	Process connection and probe	1.4301 stainless steel
Process connection		G1 DIN 2999 or 1" NPT
Ambient temperature		-20 °C ... +60 °C
Bulk goods temperature		-20 °C ... +80 °C
	Option E1	-20 °C ... +150 °C
max. process pressure		10 bar
Supply voltage (multivoltage)		20 ... 250 V AC / DC
Power consumption		3 VA
Signal contact (relay)		change-over contact, potentialfree
Capacity of the contact		5 A / 250 V AC
Response delay	attenuation	1 second
	start of vibration	2 up to 5 seconds
min. density of material		0,05 kg/l
Cable entry		cable gland M16
Type of protection		IP 66 acc. to DIN EN 60529
Maintenance		none
max. load upon the end of the vibrating rod		80 N
Option	B1	Ex II 1/2D T 80 °C IP66

Minimum-/Maximum alarm

The **VF06** can be used as maximum or minimum switch.

The way of function is adjusted by jumpers on the circuit board.

The status of the relay is shown at the circuit board by a red LED, corresponding to the drawings adjacent.

Minimum alarm L (Failsafe low)

The relay is deenergized (position NC, red LED off), when the filling level is as low as the probe is not covered with material and it is vibrating freely or it's a failure of the supply voltage.

Maximum alarm H (Failsafe high)

The relay is deenergized (position NC, red LED off), when the filling level is as high as the probe is covered with material or it is a failure of the supply voltage.

