



Vibrating Level Switches for Bulk Goods



measuring
•
monitoring
•
analysing

NVI



- Pressure: max: max. 25 bar
- Temperature: max. 160°C
- Connection: 1½ G or NPT
- Material: stainless steel
- Easy to install
- Suited for universal use
- For density > 0,05 kg/dm³
- Self-cleaning



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Description

The KOBOLD NVI level switch is a mechanical system that is made to resonate by an electronic switching operation. When the probe is covered by a medium, the vibrations are damped. This change in the resonance frequency is converted to a switching signal by electronic means.

Applications

The combined vibrating switch can be used in powdery media and granular materials. The medium to be measured should have a density of at least 0.05 kg/dm³. The single rod design prevents deposit formation. The rod is self-cleaning, as the vibrations shake off the medium.

The combined vibrating switch is in successful service in the following applications:

- Plastics industry: powders and granular material
- Chemical industry: powders, pellets and crystals
- Foodstuffs: grain, maize, flour, animal feed
- Paper making: cellulose, wood chips
- Recycling: plastic granules, paper shavings
- Power stations: flue dust, lime, coal
- Stones and earth: coal, stone powder
- Building and construction industry: cement, sand, lime

Selection criteria

The system is set at the factory for a medium density of 0.3 kg/dm³. When the medium has a low density, the sensitivity can be set to this density with a DIP switch. The level switch is inserted in the medium to be monitored for this purpose.

Technical Details

Probe length:	207 mm (standard) extended version on request
Process connection:	G 1½ or 1½ NPT
Housing material:	Aluminum, powder coated
Material for wetted parts:	1.4571 (AISI316Ti)
Sensor surface:	bright
Medium temperature:	-30°C... +110°C standard -30°C... +160°C high temperature
Ambient temperature:	-30°C... +60°C
Maximum pressure:	25 bar
Minimum density of medium:	0.05 kg/dm ³
Max. grain size:	10 mm
Max. load:	Force: 500 N Torque: 100 Nm
Switching delay (selectable):	< 1.8 s or 5 ±1.5 s with covered rod < 2 s or 5 ±1.5 s rod swings freely
Output:	changeover contact 250 V _{AC} /8A
Power supply:	20...255 V _{AC/DC} ; ≤ 2.5 VA/2 W
Electrical connection:	2 x M20 x1,5
Protection:	IP 67
Weight:	approx. 1.9 kg

Order Details (Example: NVI-1 305 R)

Model	Version	Power supply	Connection
NVI-	1 = standard 2 = high temperature	305 = 20...255 V _{AC/DC}	R = G 1½ N = 1½ NPT

Dimensions

