# **Vibrating Level Switch**

for Bulk Goods



measuring monitoring analysing

NVI



- Pressure: max: max. 360 psi
- Temperature: max. 320°F
- Connection: 11/2 NPT or G
- Material: stainless steel
- Easy to install
- Suited for universal use
- For density > 0,05 kg/dm³
- Self-cleaning



KOBOLD companies worldwide:

ARGENTINA, AUSTRIA, BELGIUM, BULGARIA, CANADA, CHILE, CHINA, COLUMBIA, CZECHIA, DOMINICAN REPUBLIC, EGYPT, FRANCE, GERMANY, GREAT BRITAIN, HUNGARY, INDIA, INDO-NESIA, ITALY, MALAYSIA, MEXICO, NETHERLANDS, PERU, POLAND, ROMANIA, SINGAPORE, SOUTH KOREA, SPAIN, SWITZER-LAND, TAIWAN, THAILAND, TUNISIA, USA, VIETNAM

KOBOLD Instruments, Inc. NOBOLD Institutions, itc.
1801 Parkway View Drive
Pittsburgh, PA 15205
Head Office:
+1.412.788.2830
+1.412.788.4890
info@kobidusa.com

www.koboldusa.com





### **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/dm<sup>3</sup>. 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  $0.3\,\text{kg/dm}^3$ . 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: 316Ti Stainless Steel

Sensor surface: bright

Medium temperature: -22°F...+230°F standard

-22°F ... +320°F high temperature

Ambient temperature: -22°F...+140°F

Maximum pressure: 360 psi

Minimum density

of medium: 0.05 kg/dm³

Max. grain size: 10 mm

Max. load: Force: 500 N

Torque: 100 Nm

Switching delay

(selectable):  $< 1.8 \text{ s or } 5 \pm 1.5 \text{ s}$ 

with covered rod < 2 s or 5 ±1.5 s rod swings freely

Output: SPDT contact 250  $V_{AC}$  /8A Power supply: 20...255  $V_{AC/DC}$ ;  $\leq$  2.5 VA/2 W

Electrical connection: 2 x M20 x1,5

Protection: IP 67

Weight: approx. 4.2 lbs

## Order Details (Example: NVI-1305R)

Model	Version	Power supply	Connection
NVI-	1 = standard 2 = high temperature	<b>305</b> = 20255 V <sub>AC/DC</sub>	<b>R</b> = G 1½ <b>N</b> = 1½ NPT

