Vibrating Fork Level Switch

NIVOGUARD

ALV810

ALV 830

ALV 860

Features

- Calibration Free
- Avoids build-up
- Compact Design
- Alarm Status Indication
- Open collector Output
- Conforms to International Standards

Vibrating Fork Level Switch

The vibrating fork level switch is specifically designed for sensing the presence of low-density dry powders or fine granular solids.
The stainless steel forks offer reliable operation with even very low-density materials. Operation of the instrument is unaffected by parameters such as changing material composition, changing moisture content and low specific gravity. The vibrating fork switch offers a reliable means of detecting pneumatically conveyed materials.

A low frequency signal is used to vibrate the piezo-electric crystal. The crystals connected to the tines of the fork cause them to vibrate. On contact with the material, these vibrations get damped. The attenuation in the vibrations is sensed by the electronics that generates an alarm.

NIVOGUARD
ALV810
Compact

NIVOGUARD
ALV 830
General Purpose

NIVOGUARD
ALV 860
Intelligent

Calibration Free
Ensures Easy and Quick installation.

Avoids build up
The vibrations of the fork provide a self-cleaning action ensuring that no build-up occurs.

Compact Design
Suitable for installation in restricted spaces.

Alarm Status Indication
LED's on the face of the instrument provide visual indication of the process status.

Open collector Output
Offers seamless integration with PLC, SCADA and DCS systems.

Conforms to International Standards
Designed to meet global requirements and available with international approvals.

Technical Specifications

Mains Supply	: 85 Vac to 265 Vac, 50/60 Hz,
Option	: 18Vdcto30Vdc
Outputs	: LED, Relay, Open Collector
Time Delay	: 2 to 30 seconds adjustable
Fork Vibrating Frequency	: 80 Hz ± 5 Hz
Ambient Temperature	: -20°Cto +60°C
Process Temperature	: 80°C max.
Option	: 150°C max.
Process Pressure	: 10 bar max.
Housing	: Cast Aluminum
Fork Material	: SS316
Max. Insertion Length	: 6000 mm
Protection	: IP67
Option	: Ex-proof Protection EExibIIBT4

Product Range

A wide range of converters are available to suit the specific customer needs.

Compact Model

For OEM's and for installation in restricted spaces. The electronics is enclosed in a compact housing and integrated with the probe into a single mechanical unit.

General Purpose Model

Simple to use, having all the essential features. Suitable for most of the typical applications. Also available in remote version.

Intelligent Model

Micro-controller based instruments incorporating all the features of the general purpose instrument and offering additional confidence in the output signal with built-in diagnostics. Also available in remote version.

Operation in Hazardous Locations

The instruments are also available with Intrinsically safe electronics or Explosion proof housings for use in potentially explosive environments.

All of the above converters are available with the below mentioned forks:

• Standard insertion length of 225 mm.
• Cable extension up to a maximum insertion length of 6 m.
• Rigid Pipe extension up to a maximum insertion length of 3.5 m.

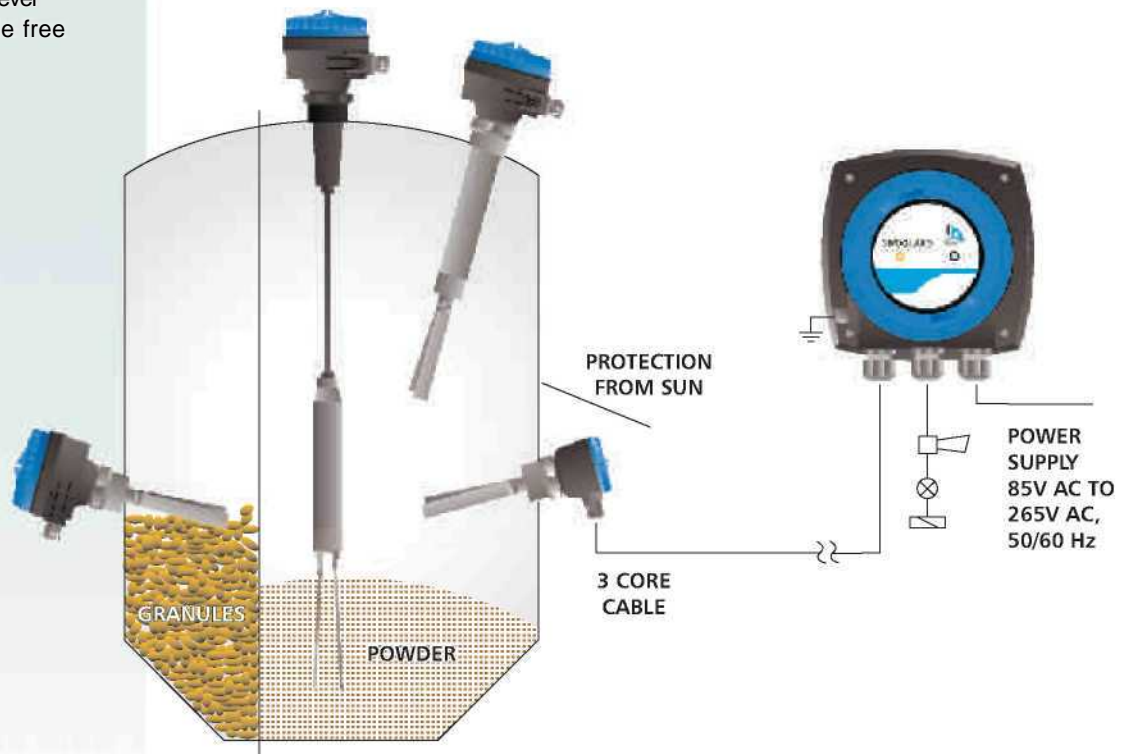Nivo Vibrating Fork Level Switch provide trouble free sensing of

Dry Powders
Cement
Pulverised coal
Coffee powder
Milk powder
Chemical powders

Fine grained Solids
Food Grains
Plastic Pellets
Wood Chips
Fertilizers
Sugar Crystals

Low Density Solids
Fly ash
Husk
Thermocole granules

and many more!

PROTECTION FROM SUN

3 CORE CABLE

POWER SUPPLY 85V AC TO 265V AC, 50/60 Hz

GRANULES

POWDER

08/MKT/181/V0

Implement Advertising Services