



# Vibrating Fork Level Switch



## **NIVO GUARD**

ALV 810

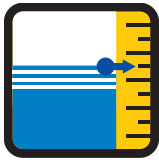
ALV 830

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.

## 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.

## NIVOGUARD

### ALV 810

### Compact

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### ALV 830

### General Purpose

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### ALV 860

### Intelligent



## Technical Specifications

Mains Supply	: 85 Vac to 265 Vac, 50/60 Hz,
<i>Option</i>	: 18 Vdc to 30 Vdc

Outputs	: LED, Relay, Open Collector
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Time Delay	: 2 to 30 seconds adjustable
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Fork Vibrating Frequency	: 80 Hz $\pm$ 5 Hz
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Ambient Temperature	: -20°C to +60°C
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Process Temperature	: 80°C Max
<i>Option</i>	: 150°C max.

Process Pressure	: 10 bar max.
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Housing	: Cast Aluminum
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Fork Material	: SS 316
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Max. Insertion Length	: 6000 mm
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Protection	: IP67
<i>Option</i>	: Ex-proof Protection EEx ib IIB T4

## 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 Switches provides trouble free sensing of

**Dry Powders**

- Cement
- Fly ash
- Coffee powder
- Milk powder
- Chemical powders

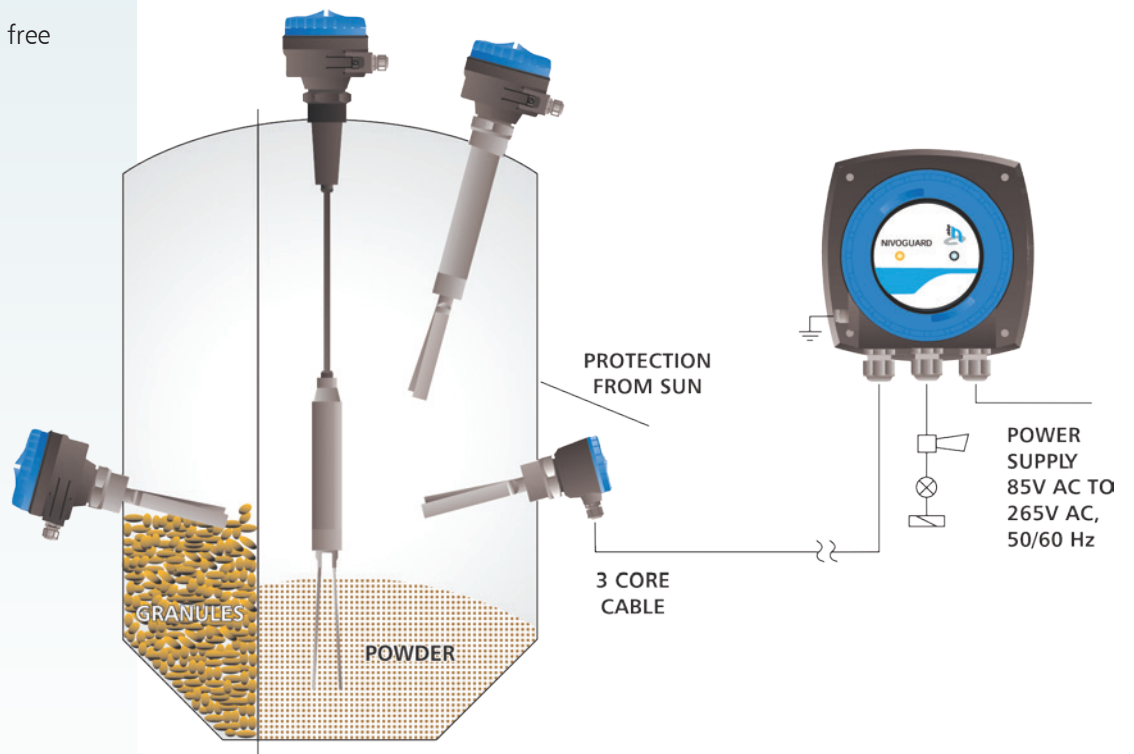
**Fine Grained Solids**

- Food Grains
- Plastic Pellets
- Wood Chips
- Fertilizers
- Sugar Crystals

**Low Density Solids**

- Fly ash
- Husk
- Thermocole granules

And many more!



*We reserve the right to modify the technical data without prior notice.*

**Manufactured by**

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