

Biscuit Processing

ILV Vibrating Level Indicators



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ILVA



ILVB



Description ▼

ILV-type Vibrating Level Indicators have been designed for electric signalling by vibrating action of minimum or maximum material level inside bins, hoppers or silos.



Function ▼

The piezo-electrically stimulated oscillating fork vibrates at its mechanical resonance frequency. If the probe is covered by bulk material, the damping thus generated is registered electronically and a corresponding signal output is actuated. The oscillation of the fork ensures a certain degree of self-cleaning. The top or side-mounted indicators are commonly used for materials having a bulk density starting from 0.06 t/m³ (0.002 lb per cu in).

Application ▼

Typically ILV Vibrating Level Indicators are fitted on the vertical walls of a bin, silo or hopper at the desired maximum or minimum level (ILVA). Equipped with an extension rod, it can also be mounted vertically into the roof plate (ILVB).

Benefits ▼

- ✓ No product contamination due to 304 stainless steel forks and fittings;
- ✓ No contact between material and casing;
- ✓ Zone 20 /21 ATEX-certified;
- ✓ Suitable for very light materials;
- ✓ Use with different materials in one single configuration;
- ✓ Easy and quick installation and replacement;
- ✓ Compact overall dimensions and lightweight due to aluminium alloy casing;
- ✓ Rotatable casing orientation marking of oscillating rods;
- ✓ Maintenance-free;
- ✓ Cost-effective.

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Technical Features / Performance ▼

- ▶ Voltages available: 19 V230 V AC, 50-60 Hz; (absorption 22 VA)
19 V....40 V DC; (absorption 2 W)
- ▶ Signal output: DPDT, max. 250 V AC, 8 A – max 30 V DC, 5 A – Non inductive
- ▶ Standard connection: thread G 1½"
- ▶ Enclosure: IP 66
- ▶ Working temperature inside vessel: - 40 °C to 150 °C (- 40° F to 302° F)
- ▶ Ambient temperature: - 40°C to + 60°C (- 40°F to 140°F)
- ▶ Vessel maximum pressure: min. - 1 bar - max. + 16 bar (- 14.5 to 232 PSI)
- ▶ Threaded fittings material: 304 stainless steel
- ▶ Vibrating fork material: 304 stainless steel
- ▶ Casing material: aluminium alloy
- ▶ Maximum oscillation: 7 Vss DC
- ▶ Measuring frequency: 200 Hz
- ▶ Sensitivity: adjustable at two levels (max. 0.06 t/m³ – min. 0.15 t/m³)
- ▶ ILVB modular shaft extension min. 300 mm up to 4,000 mm in 100 mm steps
- ▶ Optional rain shield
- ▶ Optional flanged connection

Overall Dimensions ▼

