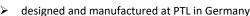
# LEVELSWITCH CV130



#### Füllstandtechnik . Level Control

## Description

- Vibration type level switch with single-rod design for the reliable detection of all kinds of bulk solids: powdered or granule, heavy or lightweight down to 10g/l
- can be used for high- or low-level alarm or for demand indication in silos and hoppers of all kind
- diamond shaped single rod design prevents false alarm caused by material resting onto the vibrating blade
- > very robust because of patented reinforced membrane
- > welded pipe extension with insertion lengths from 200 to 2000mm
- easy installation and set-up
- maintenance free
- ➤ ATEX-approval for dust-Ex





# Specifications

Enclosure: Alu-diecast, Protection IP 66 and IP 67

two cable entries M20x1,5

Electronics: wide range power supply 22 ... 250V AC/DC with relay output:

two potential free change-over contacts (DPDT) max. AC:  $8A@250V / 2000VA / cos\phi = 1$ ; max. DC: 8A@24V-DC / 1,5A@48V-DC

min. DC: 24V / 100mA power consumption: ≤ 3 VA

or: power supply 24V-DC with transistor output:

potential free, NPN or PNP depending on wiring

350mA @ 24V-DC, short time max. 1A, max. power 20W  $\,$ 

power loss max. 3V, leakage current max. 100 $\mu A$ ; short circuit proof

power consumption at blocked transistor: < 1 W

Probe: insertion length: min. 200 up to max. 2.000mm

material: stainless steel 1.4301 / AISI 304

connection: 1-1/2" EN10226 (DIN 2999 equals BSPT) or 1-1/2" NPT

reson. frequency: 286 Hz

Max. pressure inside bin: 10 bar (0,8 ...1,1 bar at ATEX approved units!)

Ambient temperature electronics: -40°C ... + 70°C (-20°C...+60° at ATEX approved units!)

Process temperature inside bin: standard: -40°C ... + 80°C

Special model HT: -40 ... +150°C

Material to be detected: non sticky bulk solids

min. density 20 grams per litre, with special model as low as 10 g / liter

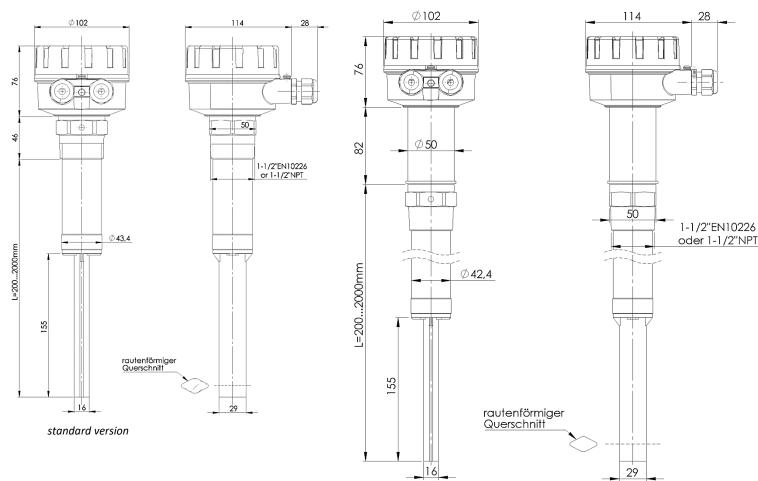
particle size from powder to max. 40mm



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### **Special Models**

### > Remote Electronics Installation

This version offers a split architecture of probe and electronics.



Application: - if the ambient temperature near the

container wall exceeds 60°C

- if heavy vibrations are present at the

container

Hose length: standard 2 meter, other lengths on request

#### High Temperature Model

Application: for process temperatures above 80°C to max. 150°C. To protect the electronics from too high temperatures, a temperature insulating tube gets mounted in between the process connection and the enclosure. Instead it is as well possible to install the electronics at a place with lower ambient temperature by using the remote electronics installation.

Special model HT with temperature insulating tube

#### **Options**

- > Enclosure powder coated
- Externally visible LED for indicating output status (not available in combination with ex approval)
- Process connection "Tri-Clamp" according to DIN32626
- Special model "Extreme Sensitivity": senses material down to 10g/l

#### **Approvals**

- > CE-Conformity according to the following directives
  - EU-EMC-directive 2014/30/EU
  - EU-LVD-directive 2014/35/EU
- ATEX approval according to ATEX-directive 2014/34/EU for dust-explosive atmospheres: ATEX II 1/2D T95°C for zones 20/21/22