LEVELSWITCH CV120



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
- > easy installation and set-up
- maintenance free
- ATEX-approval for dust-Ex
- designed and manufactured at PTL in Germany





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. 100μA; short circuit proof

power consumption at blocked transistor: < 1 W

insertion length: 170mm Probe:

> stainless steel 1.4301 / AISI 304 material:

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!)

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

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

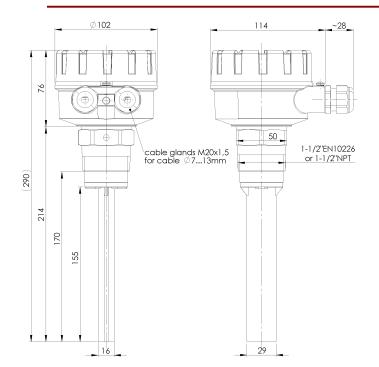
particle size from powder to max. 40mm



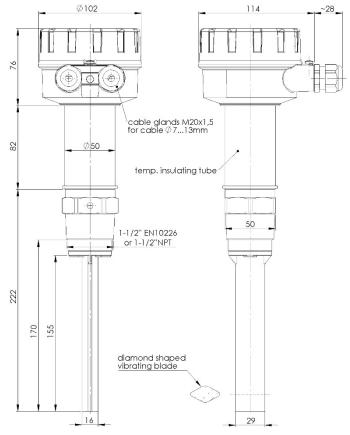
LEVELSWITCH CV130



Füllstandtechnik . Level Control



standard version



Special model HT with temperature insulating tube

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.

Options

- > Enclosure powder coated
- > Externally visible LED for indicating output status (not available in combination with ex approval)
- 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