

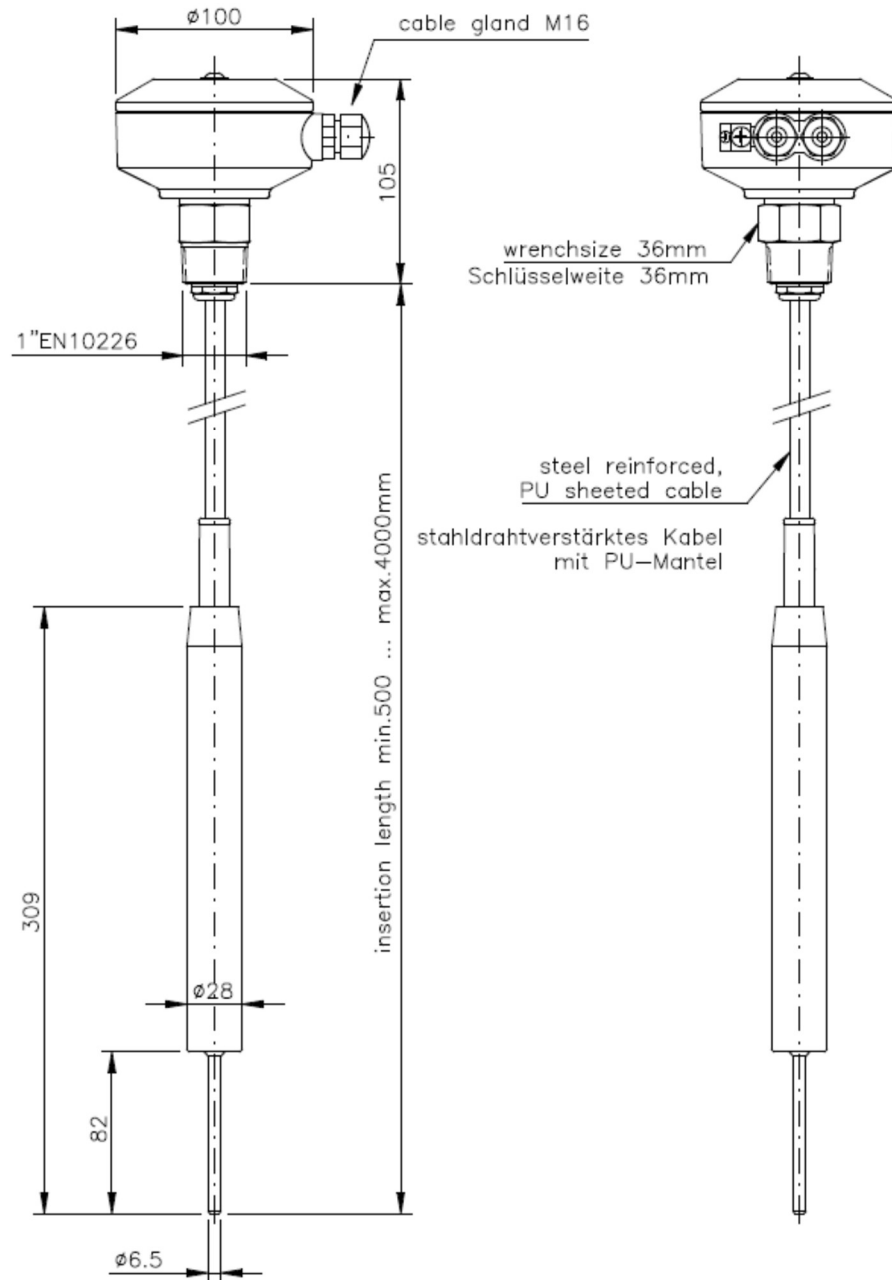
Specification

- Vibration type level control instrument for the detection of bulk granular solids with density down to 10g/l
- to be used for high- or low-level alarm in all kinds of silos, hoppers, bins or vessels
- cable extension for insertion lengths up to 4000mm
- easy installation, no calibration required
- maintenance free
- ATEX-approval for dust-Ex 
- designed and manufactured based on own patents at PTL Hermann GmbH in Rheinfelden / Germany 



Technical Data

Enclosure:	alu-diecast, protection IP66 and IP67 one cable entry M16x1,5 (optionally two)
Electronics:	wide range power supply 22 ... 250V AC/DC with relay output: one potential free switch (SPDT) max. switching data AC: NC: 3A@250V / 750VA / $\cos\phi = 1$; NO: 5A@250V / 1250VA / $\cos\phi = 1$ max. switching data DC, NO and NC: 5A@30V; min. 100mA@5V-DC power consumption: ≤ 3 VA Time delay: 1 second after stop of vibration 2 to 5 seconds for start of vibration indication: LED on board settings: mode: FH (high level alarm) / FL (low level alarm) sensitivity: 3 settings A/B/C
Probe:	insertion length: min. 500 to max. 4000mm material: stainless steel 1.4301 / AISI 304 extension cable: PU-sheathed, max. load 200kg process conn.: 1" EN10226 (DIN 2999 equ. BSPT) or 1" NPT res.-frequency: approx. 460 Hz
Max. pressure inside bin:	10 bar (0,8 ... 1,1 bar for ATEX-models!)
Ambient temperature electronics:	-20°C ... + 60°C
Process temperature inside bin:	-20°C ... + 70°C
Material to be detected:	dry, non-sticky, free flowing bulk solids, particle size 0,5 to max. 20mm min. density 20 grams / litre, with special model down to 10g/l



Special Versions

Remote Electronics Installation

This version offers a split architecture of probe and electronics.
Application: if heavy vibrations at the bin are present.
Hose length: standard 2 meter, other lengths on request.



Other Options

- enclosure powder coated, several colours available
- PTFE-coating of vibrating rod to reduce material build-up
- probe polished
- special model extreme sensitivity for very light materials down to 10g/l.

Approvals

- CE-Conformity for all products according to:
 - EU-EMC-directive 2014/30/EU
 - EU-LV-directive 2014/35/EU
- Ex-Approvals according to ATEX-directive 2014/34/EU:
 - dust-Ex: ATEX II 1/2D Ex ta/tb IIIC T95°C Da/Db
 - for zones 20/21/22