



Pendulum Level Monitor for Bulk Solids



measuring
•
monitoring
•
analysing

PLS



- Pendulum length up to 2000 mm
- p_{\max} : -0.1...+0.5 bar; t_{\max} : 80°C
- Process connection: aluminium-flange
- Contact: max. 250 V_{AC}/3 A
- For max. level in storage tanks/silos
- Materials: aluminium, EPDM
- For ATEX-applications



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Description

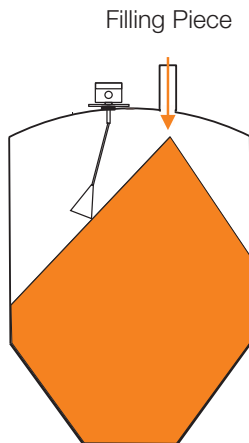
The KOBOLD pendulum level monitors model PLS serve for the monitoring of the maximum fill level of bulk solids in storage tanks and silos. The monitor is made out of two parts: the aluminium connection housing with the microswitch and the connection terminals and the pendulum rod with the measuring cone.

The monitor is installed vertically on the side of the filling piece. When a silo is filled with bulk solids, a cone is created which causes the measuring cone of the level monitor to swing to the side as the fill level increases. This swing movement is transferred from the pendulum rod to the microswitch using magnetic force, and without actual contact. The instruments are also available with an ATEX certificate (1/2 D Zone 20/21/22) for use in areas where there is a risk of dust explosions.

Applications

- For almost all bulk solids
- Cereal
- Flour
- Granulated plastic
- Cement
- Sand
- Cacao
- Sugar

Mounting Example



Technical Details

Measuring principle: pendulum
 Installation length: 500 mm, 1000 mm, 1200 mm, 1500 mm, 2000 mm
 Medium temperature: max. 80°C
 Ambient temperature: max. -20...+60°C
 Operating pressure: max. -0.1...+0.5 bar
 Mounting position: vertical

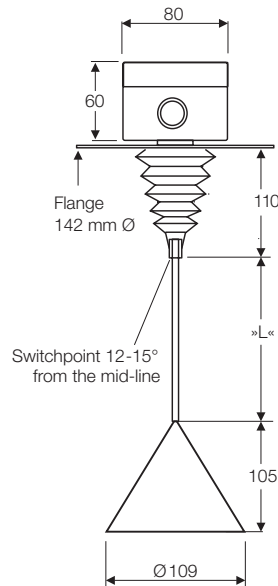
Materials

Connection housing: aluminium
 Process flange: aluminium
 Bellows: EPDM
 Pendulum rod: aluminium 8 mm
 Cone: aluminium
 Electrical connection: via cable gland M20 x 1.5
 Contact: microswitch (changeover switch)
 Electr. switching values: max. 250 V_{AC}/3 A
 Protection: IP 65

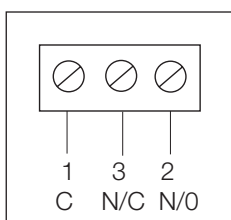
ATEX:

- ⊕ II 2/1 D Ex tD A21 IP65 T85°C Ta:-20/+60°C
- ⊕ II 1 GD Ex ia IIC T6/Ex iaD 20 T85 Ta:-20/+60°C

Dimensions



Electrical Connection



Order Details (Example: PLS-200 EX 05)

Model	Pendulum length L
PLS-200 EX	05 = 500 mm
	10 = 1000 mm
	12 = 1200 mm
	15 = 1500 mm
	20 = 2000 mm