



Pendulum Level Monitor for Bulk Solids



measuring
•
monitoring
•
analysing

PLS



- Pendulum length up to 2000 mm (longer on request)
- 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 (in preparation)



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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.

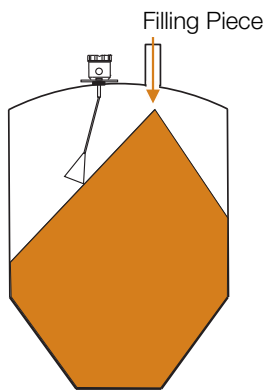
The monitor is installed vertically on the side of the filling piece. When a silo is filled with bulk solids, a cone is created which causes the measuring cone of the level monitor to swing to the side as the fill level increases. This swing movement is transferred from the pendulum rod to the microswitch directly.

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.

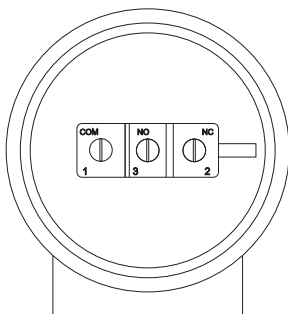
Applications

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

Mounting Example



Electrical Connection



Technical Details

- Measuring principle: pendulum
- Installation length: 500 mm, 1000 mm, 1200 mm, 1500 mm, 2000 mm (others on request)
- Medium temperature: max. 80 °C
- Ambient temperature: max. -20 ... +60 °C
- Operating pressure: max. -0.1 ... +0.5 bar
- Mounting position: vertical
- Min. bulk/solid density: 0.3 kg/dm³

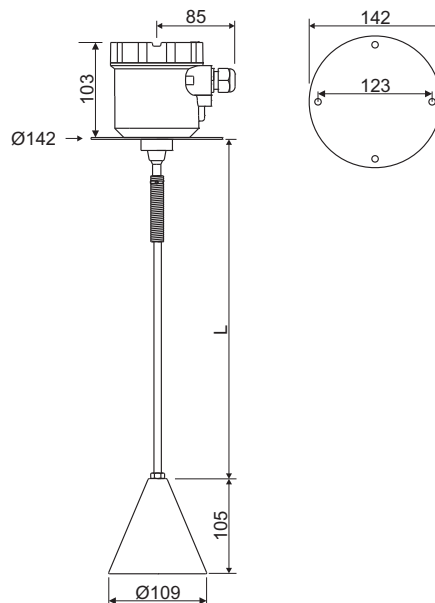
Materials

- Connection housing: aluminium
- Process flange: aluminium
- Bellows: EPDM
- Pendulum rod: aluminium 8 mm
- Cone: aluminium

Electrical Details

- Electrical connection: via cable gland M 20 x 1,5
- Contact: microswitch (changeover switch)
- Electr. switching values: max. 250 V_{AC}/3 A
- Protection: IP 65
- ATEX (in preparation): II 2/1 D Ex tb IIIC T85°C Db/Da

Dimensions



Order Details (Example: PLS-200 00 05)

Model	Approval	Pendulum length L
PLS-200	00 = without EX = ATEX approval	05 = 500 mm
		10 = 1000 mm
		12 = 1200 mm
		15 = 1500 mm
		20 = 2000 mm
		XX = special length on request