



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}/4 A
- For max. level in storage tanks/silos
- Materials: aluminium, NBR



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KOBOLD Messring GmbH
Nordring 22-24
D-65719 Hofheim/Ts.
Head Office:
+49(0)6192 299-0
+49(0)6192 23398
info.de@kobold.com
www.kobold.com

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.

Applications

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

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. -25 ... +80 °C
Operating pressure:	max. -0.1 ... +0.5 bar
Mounting position:	vertical
Min. bulk/solid density:	0.3 kg/dm ³

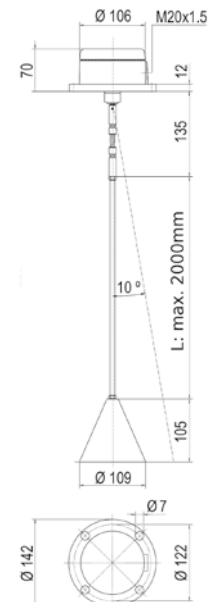
Materials

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

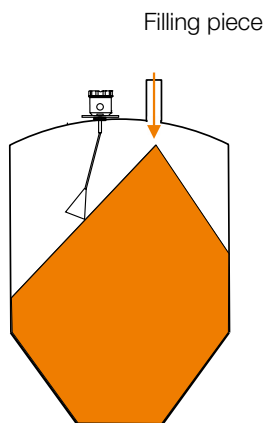
Electrical Details

Electrical connection:	via cable gland M 20 x 1,5
Contact:	microswitch (changeover switch)
Electr. switching values:	max. 250 V _{AC} /4 A (resistive load)
Protection:	IP 66

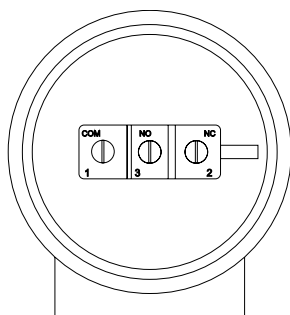
Dimensions [mm]



Mounting Example



Electrical Connection



Order Details (Example: PLS-200 00 05)

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