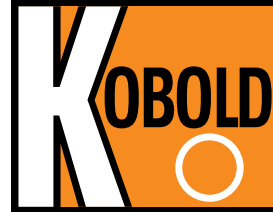


PLS
Pendulum Level Switch for Bulk Solids



Measuring
Monitoring
Analyzing



- **For Max. Level in Bulk Solids Storage Bins/Silos**
- **Pendulum Length up to 6 Feet**
- **pmax: -1.5 to + 7 PSIG; tmax: 175°F**
- **Flanged Process Connection**
- **No Power Required**
- **Aluminum and EPDM Construction**



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Description

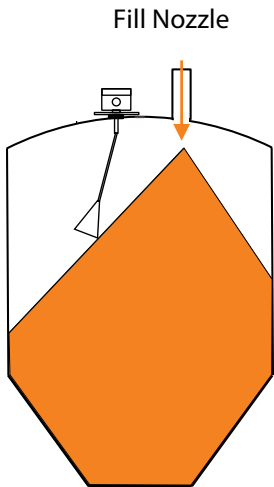
The KOBOLD PLS series pendulum level switch is a very simple and reliable solution for monitoring high level of bulk solids and powders in storage bins and silos. The switch consists of two major components, the aluminum housing containing the microswitch with the connection terminals and the pendulum rod with sensing cone.

The switch is installed vertically at the top of the vessel preferably near the fill nozzle. When the vessel is filled with material, a cone is created with the material below the fill point. As the level of the material increases, it will contact the sensing cone of the switch. This causes the sensing cone and pendulum rod to pivot as the fill level increases. This movement is magnetically transferred from the pendulum rod to an integral microswitch. This magnetic switch activation eliminates mechanical contact thereby making the PLS very reliable. The PLS is available in five standard rod lengths up to six-and-a-half feet (2000mm). The pendulum rod can also be ordered with special length. The magnetically activated switch requires no power to operate. It acts as a simple apparatus and can be used in hazardous locations when installed with the proper intrinsic safety barrier.

Applications

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

Mounting Example



Specifications

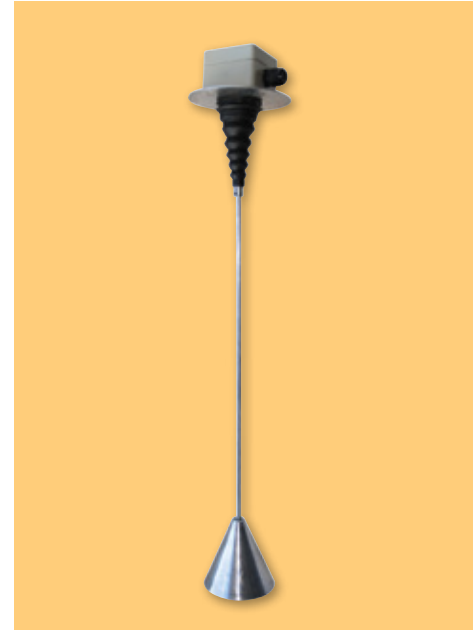
- Measuring Principle:** Pendulum
- Available Rod Length:** 19.7" (500mm), 39.4" (1000 mm), 47.2" (1200 mm), 59.0" (1500 mm), 78.7" (2000 mm)
- Media Temperature:** Max. 175°F
- Ambient Temperature:** -4 to +140°F
- Operating Pressure:** -1.5 to +7 PSIG
- Mounting Position:** Vertical

Materials of Construction

- Connection Housing:** Aluminum
- Process Flange:** Aluminum
- Bellows Boot:** EPDM
- Pendulum Rod:** Aluminum
- Sensing Cone:** Aluminum
- Switch Type:** SPDT microswitch
- Switch Rating:** Max. 250 VAC/3 A
- Electrical Connection:** Cable gland M20x1.5
- Protection:** NEMA 4X IP65

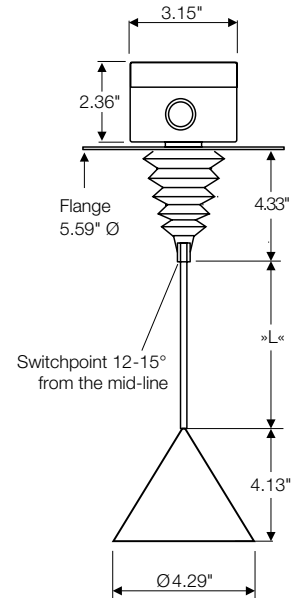
ATEX:

- Ⓔ 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

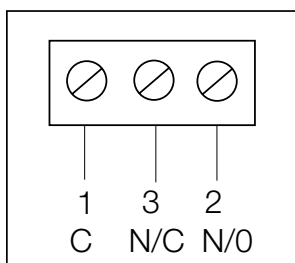


KOBOLD PLS Pendulum Level Monitor for Bulk Solids

Dimensions



Electrical Connection



Ordering Information (Example: PLS-200EX05)	
Model	Pendulum length L
PLS-200EX	05 = 19.7" (500 mm)
	10 = 39.4" (1000 mm)
	12 = 47.2" (1200 mm)
	15 = 59.0" (1500 mm)
	20 = 78.7" (2000 mm)
	YY = Special Length*

*Please specify in the clear text