

Pendulum Level Switch for Bulk Solids

PLS (MS-1)

- ❖ Pendulum Length up to 2000 mm
- ❖ Process Connection : Aluminum Flange
- ❖ Contact : Max. 250 VAC / 15 A
- ❖ For Max. Level in Storage Tanks/Silos
- ❖ Materials : Aluminum, NBR
- ❖ Continuous operation without maintenance
- ❖ No auxiliary energy necessary
- ❖ High reliability
- ❖ Use in dust and gas explosive hazardous areas possible
- ❖ Innovative protection against buckling



Description

The Filsa PLS (MS-1) monitors the maximum fill level of bulk solids in storage tanks and silos. The monitor consists of two parts: the aluminum connection housing with the microswitch and the pendulum rod with the measuring cone. The PLS is installed vertically on the side of the filling piece. When a silo is filled with bulk solids, the rising level causes the measuring cone of the level monitor to swing to the side. This movement is directly transferred from the pendulum rod to the microswitch.

Applications

- ❖ For Most Bulk Solids
- ❖ Cereal
- ❖ Flour
- ❖ Granulated Plastic
- ❖ Cement
- ❖ Sand
- ❖ Sugar

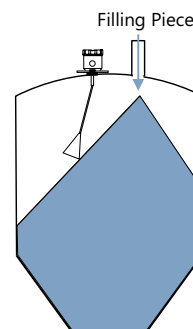
Technical Details

- ❖ Measuring Principle : Pendulum
- ❖ Installation Length : 500 mm, 1000 mm, 1200 mm, 1500 mm, 2000 mm (Others on Request)
- ❖ Media Temperature : Max. 80 °C
- ❖ Ambient Temperature : -25...80 °C
- ❖ Mounting Position : Vertical
- ❖ Min. Bulk/Solid Density : 0.3 to 3 t/m
- ❖ Connection Housing : Aluminum
- ❖ Process Flange : Aluminum
- ❖ Bellows : NBR
- ❖ Pendulum Rod : Aluminum, 8 mm (Under request Stainless Steel)
- ❖ Cone : Aluminum (Under request Stainless Steel)
- ❖ Electrical Connection : Via Cable Gland M 20 x 1.5
- ❖ Switching Function : 1 NO + 1 NC
- ❖ Electr. Switching Values : Max. 250 V_{AC}/15 A
- ❖ Protection : IP 66
- ❖ Maximum pressure : +0,5 bar

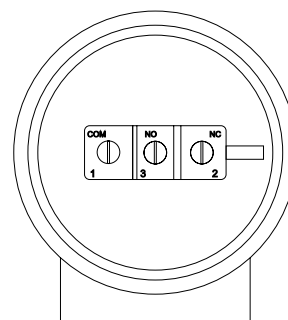
Order Details (Example : PLS (MS-1)-200 00 05)

Model	Approval	Pendulum Length "L"
PLS (MS-1) 200	..00.. = Without ..01.. = Atex	..05 = 500 mm ..10 = 1000 mm ..12 = 1200 mm ..15 = 1500 mm ..20 = 2000 mm ..YY = Special Length

Mounting Example



Electrical Connection



Dimensions

