

## Boot Diaphragm type Level Switch

### APPLICATION

The Diaphragm Level Switch is used for indication, controlling and regulating the level of granulated or powdered dry materials with a grain diameter up to 30mm & a density of 0,3 to 2,5 g/cm<sup>3</sup>, flowing through a silo, hopper or chute.

### FEATURES

The Diaphragm Level Switch consists of a micro switch inside a cast AL housing, covered by a flexible diaphragm.



### OPERATION

The device must be mounted so that the diaphragm membrane is exposed to the product whose level should be controlled, in such a way that the product, can press the diaphragm.

The material weight presses the diaphragm which is adjusted with the micro switch through a flexible mechanism. A liver attached to the diaphragm transfers the pressure to the micro switch which changes the contact.

When the material recedes the diaphragm comes back to its normal position and the micro switch again changes the contact.

### TECHNICAL SPECIFICATION

Normal sensitivity: 100 gm / 500 gm

Diaphragm Membrane material: Nitrial Rubber / SS

Max. working temperature: 60 DegC

Micro Switch contacts: 15 Amp, 230 V AC, Potential free

Cable Gland : PG 11

Housing: Cast Al Protection ; IP 40

### INSTALATION & MOUNTING

The Diaphragm Level Switch can be installed outside the container by making a hole on the wall, so that the membrane remains exposed to the product inside. Suspended by means of a tube, it can be also installed inside the container. Using adaptors, it can be installed in pipes and conduits.

Wherever possible level switch should be mounted on vertical surface. By this means, the product can flow free downwards, and wrong indications are avoided. It can be mounted on surfaces with a slope of not more than 30 degrees from vertical, provided that the product leaves the membrane thoroughly free when flowing along. If maximum levels are to be controlled, the devices must be mounted at such a height that the product overflowing the membrane can exert pressure on this membrane, working the micro switch.

Authorised Dealer



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