

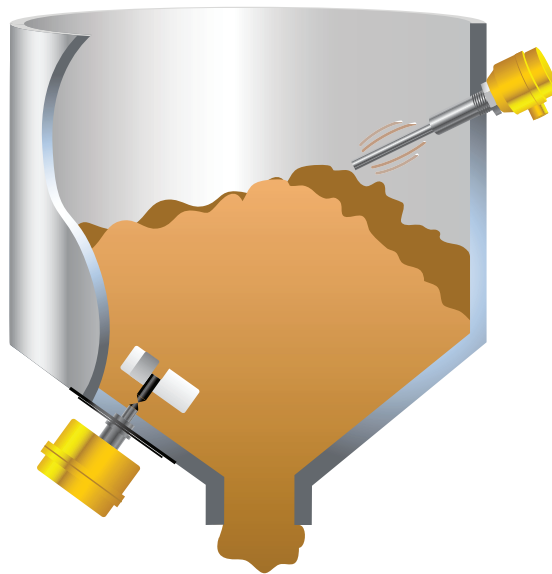
Mobrey™ Dry Products

Level Measurement and Control

Product Data Sheet

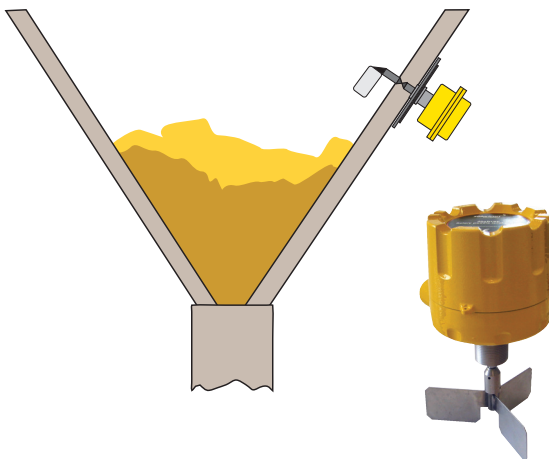
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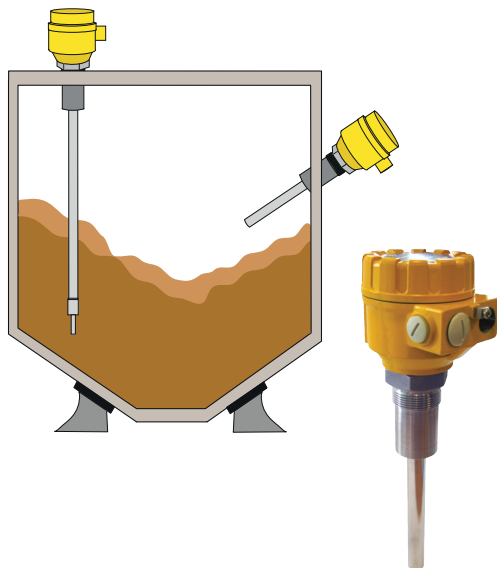


- The Mobrey product range provides reliable point level detection in a variety of dry solid applications
- The Mobrey Series PLS is a paddle rotating level switch that detects high or low levels of most free-flowing bulk solids and powders
- The Mobrey Series VLS vibrating rod level switch has a single probe design that eliminates the clogging and ridging problems associated with forks

Overview of the Dry Products Level Switches



Series PLS paddle level switch



Series VLS vibrating rod level switch

Measurement principle

The measurement and control of dry products is important in all industries, from mining through to fine chemicals. Such is the diversity of product to be measured, that no single instrument is capable of reliable operation in all materials.

Mobrey products offer a range of technologies to ensure that users are able to select the most appropriate instrument for the application.

[Table 1 on page 3](#) is a guide to selecting a proven and reliable Mobrey product for your application.

Series PLS paddle level switch

The paddle switch may be used as either a high or low level limit switch. It is easily mounted through a vessel wall. A small electric motor drives a paddle which rotates freely in the absence of material.

When the paddle is impeded by the presence of material, a microswitch actuates an alarm signal. As soon as the paddle is completely stopped from rotating, power to the motor is cut, thus extending motor life. After the material level falls, the motor is returned to its normal position and the paddle begins to rotate again.

Series PLS switches can be used with granular, pelletized, and powdered dry products. They may be used in high level applications with materials over 160 kg/m^3 and low or intermediate applications with materials over 80 kg/m^3 .

Series VLS vibrating rod level switch

The vibrating rod level switch is the perfect solution for single point level switching in free flowing solids across a wide density range, from fine powders to grains. A single rod design provides the solution to tuning forks which may become blocked or bridged.

The vibration rod is energized and kept in resonance by an electronic circuit. When covered by material, the damping of the vibration is detected by the electronics which initiate the switching of the output relay after a built-in programmable time delay.