

Tilt Switches and Control Unit

The SMS Series of Tilt Switches are used for detecting levels of Solids and Liquids.

The Tilt Switch Probe is a very simple device that can be used for many applications some of which are listed below. Thousands of these units have been sold worldwide.

The "heart" of the device is a precision mercury switch that is actuated when the switch is "tilted" 15 degrees or more from its vertical position, irrespective of the direction of movement. The switch has a normally closed contact and movement of the probe causes this contact to open.

The mercury switch is a metal, sealed, device that is then encapsulated within different assemblies to provide probes for a range of materials and applications.

Applications include:

- High level detection of solids and liquids in storage bins and tanks.
- Blocked chute detection.
- Flow – No Flow indication of materials on a conveyor belt.
- Over height detection of material on a conveyor belt.
- Belt Tracking indication.
- Material level detection for stacking conveyors.
- Travel Limit detection for conveyors and tripper cars.

Standard probes

Three "standard" probes are available from stock but over the years many "specials" have been manufactured for specific applications. If the standard models do not quite suit your application please contact us and we will see if we do something to solve your problem.

Model No.	Description	Construction	Length	Diameter	Weight
SMS-1	Standard Probe for solids up to 50mm	Black Nylon Coated Mild Steel	240mm	35mm	0.625 kg
SMS-2	Heavy Duty Probe for solids over 50mm	Black Nylon Coated Mild Steel	360mm	43mm	1,335 kg
SMS-3	Flighted Probe for Granules and Powders	Black Nylon Coated Mild Steel	230mm	115mm	0.500 kg

Contact Rating: 1 ampere at 24 vdc. Standard Cable length for all probes is 5m but any length can be supplied at extra cost.

Special Probes and accessories

A range of wear plates and floats are available for special applications.

SMS 1

SMS 2

SMS 3

SMS 1-2-3

