

BINMASTER TILT switch

High-Level Alert Switch

Versatile level monitoring for bulk solids

BinMaster's mercury-free tilt switch is a versatile and economical bulk solids level indicator. This rugged sensor activates a high-level alert when material accumulates under the sensor and tilts the shaft by at least 15 degrees. Its simple yet robust mechanical design makes it ideal for detecting and alerting to high levels of bulk solids in vessels like bins, tanks, and silos.

Alternatively, the tilt switch can detect potential flow stoppages by signaling when bulk material plugs or clogs chutes. Suitable for both enclosed vessels and open piles or conveyors, this mechanical level switch provides reliable high-level detection for diverse bulk solids thanks to its straightforward, maintenance-friendly pivoting design.



BM-TSM switch fix-mounts on the top of a bin or silo for powders or solids with bulk density of at least 15 lbs./cu.ft. Features C/US Class II Division 1 Groups E, F, and G, and ATEX Zone 21 hazardous location approvals.

Tilt switch level indicator

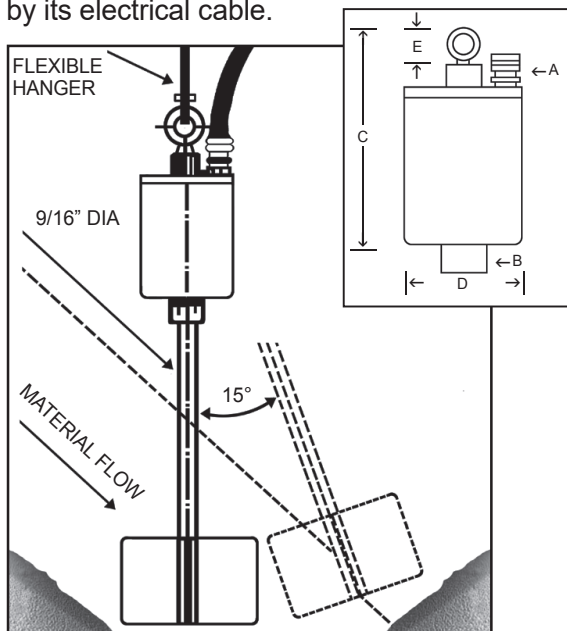


BM-T Tilt Switch with 18" stainless steel shaft and 316 stainless steel paddle used in rock, aggregate, and bulk solids over 30 lb./cu.ft.

BM-T Tilt Switch with the 18" 316 stainless steel shaft and stainless steel sphere is used in light powder and bulk solids under 30 lb./cu. ft.

Installation

Suspend the tilt switch over control point with wire rope, chain or flexible hanger capable of supporting the tilt switch plus any paddle extension, if one is used. Do not hang the unit by its electrical cable.



Robust Single-Motion Operation

The tilt switch's rugged design ensures dependable high level monitoring and clog detection with an elegantly simple operating principle - just one moving part. When tilted at least 15 degrees by accumulated bulk solid material, an internal steel ball or paddle shifts position to trigger a microswitch alert. This straightforward pivoting motion reliably signals high-level conditions or flow stoppages. For enhanced sensitivity to smaller material top-ples, an optional stainless steel paddle extension or low-density stainless steel sphere can be installed on the sensor's end.

Flexible Mounting for Diverse Applications

Positioning the tilt switch over the desired monitoring point is easy using a wire rope, chain or other flexible hanger system rated for the sensor's weight. This allows mounting over bins, silos, chutes and open piles to detect high levels or clogs based on the measured bulk solid's tendency to disturb and tilt the device when arriving at the control point.

Dimensions

Connector (A):	3/8" conduit grommet for .312- to .437" diameter cable
Accessory Mount (B):	9/16" (14mm) diameter 1/8" roll pin used for connection
Length (C):	9" (229 mm)
Diameter (D)	4" (102 mm)
Eye Bolt Hole (H):	7/8" (22mm)

Specifications

Housing:	Cast aluminum
Weight:	3.75 lb. (1.7 kg)
Switch ratings:	15A@125 or 250 VAC 1/8 HP @ 125 VAC, HP @ 250 VAC 1/2 A @ 125 VDC, 1/4 A @ 250 VDC

*Wire rope, chain, or cable not included

TSB-0624-BLC