

Tilt Switch

Model : SS-43 Series

Description

Tilt Switch Probes are electro-mechanical tilt sensors designed for sensing bulk materials presence or absence at the location of installation. Typical applications include high and low level detection and detection of plugged conditions in chutes. Also used for detecting the conditions of bulk material on conveyor belts.

KBT Tilt Switch are made from two materials for different applications: The SS series with stainless steel body and the CB series which are made metal cast to meet heavy working conditions. Depending on the applications, can be supplied with a dedicated control unit or can be directly integrated in existing control system.

Specifications

Weight: 0.35 kg (0.85 kg with cable)
Protection Class: IP68
Certificate: CE
Contact Values: 12,5A - 120VAC / 5 ohm

Applications

High level control for silos and feed hoppers (dry bulk materials or liquids)
Flow / no-flow detector
Plugged chute detector
Belt tracking indication

Technical Specifications

Model	Tilt Angle	Temperature Rating	Description
SS-43	35° in any direction	-40°C to +80°C	Stainless Steel Body
SS-43HT	35° in any direction	-40°C to +190°C	Stainless Steel Body + High Temperature Resistance
SS-43-KCT-601	35° in any direction	-40°C to +80°C	Stainless Steel Body + Ball Float
SS-43-KCT-101	35° in any direction	-40°C to +80°C	Stainless Steel Body + Extension Plate
SS-43HT-KCT-601	35° in any direction	-40°C to +190°C	Stainless Steel Body + Ball Float
SS-43HT-KCT-101	35° in any direction	-40°C to +190°C	Stainless Steel Body + High Temperature Resistance + Extension Panel
SS-43-B1	20° in any direction	-40°C to +80°C	Stainless Steel Body + 20° Angle + Mercury Free
SS-43HT-B1	20° in any direction	-40°C to +190°C	Stainless Steel Body+ High Temperature Resistance + 20° Angle + Mercury Free
SS-R43	20° in any direction	-40°C to +80°C	Stainless Steel Body + 20° Angle
SS-R43HT	20° in any direction	-40°C to +190°C	Stainless Steel Body + High Temperature + 20° Angle
SS-43-C1	35° in any direction	-40°C to +80°C	Stainless Steel Body + Steel Tubing for Cable Protection
SS-43-C2	35° in any direction	-40°C to +80°C	Stainless Steel Body + Spiral Pipe for Cable Protection
SS-43HT-C1	35° in any direction	-40°C to +190°C	Stainless Steel Body + High Temp. Resistance + Steel Tubing for Cable Protection
SS-43HT-C2	35° in any direction	-40°C to +190°C	Stainless Steel Body + High Temp. Resistance + Spiral Pipe for Cable Protection

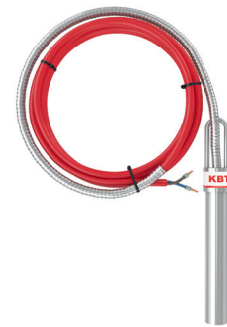
Cable length 3.3 metres.



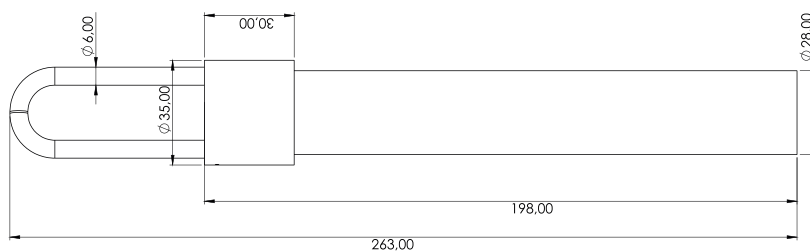
SS-43C1
Protection Cable Tilt Switch



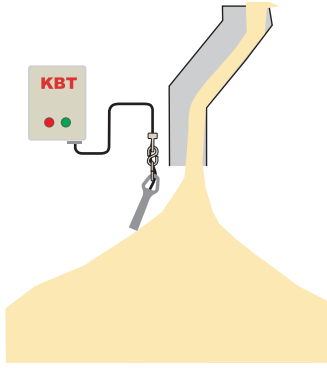
SS-43
Unprotected Cable Tilt Switch



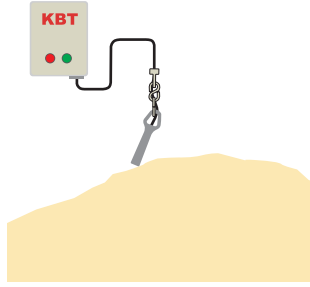
SS-43HTC2
High Temperature Resistance Cable Protection
Tilt Switch



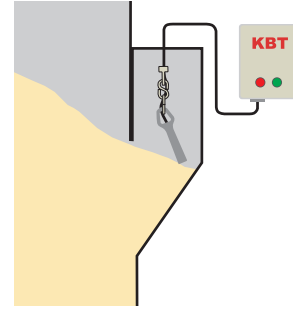
Types of Applications



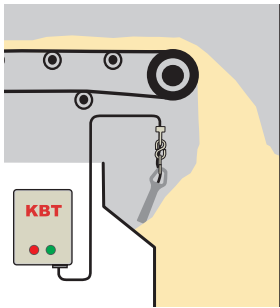
High Level



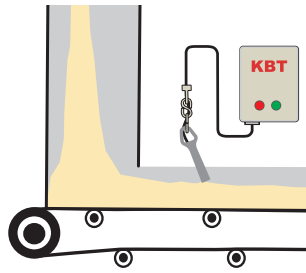
High Pile



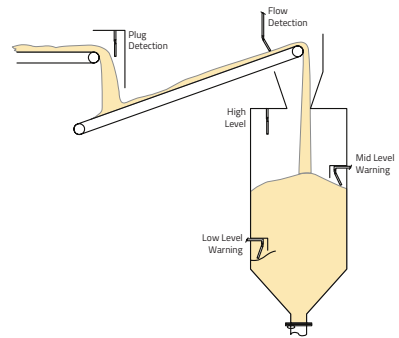
Low Level



Plugged Chute



Material Flow

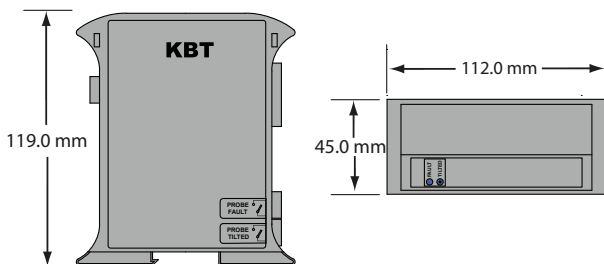


General Application

Control Panel Specifications

Entry	All Models	115/230 VAC, 50/60 Hz
Alarm Contact	KT20-P	(2) SPDT 115/230VAC 10 A / 30VDC 7A non-inductive
	KT25-DIN	(1) NO 115/230VAC 2A / 20VDC 3A
Fault Contact	All Models	(1) NO 2A rated for 115/230VAC@24VDC
Delay Time	All Models	Can be set to 1, 2, 4 or 6 seconds.
Temperature	All Models	-40°C to +50°C
Protection	KT20-P	IP65 (NEMA 4)
	KT25-DIN	IP20 (NEMA 1)
Certificate	All Models	CE
Hazardous Zone Usage	Awaiting Approval	

KT25-DIN Mounting Dimensions



KT20-P Mounting Dimensions

