

Tilt Switch

Model : CB-39 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: 0.95 kg (2.1 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
CB-39	35° in any direction	-40°C to +80°C	Casting Body for Heavy Conditions
CB-39HT	35° in any direction	-40°C to +190°C	Casting Body for Heavy Conditions + High Temperature Resistance
CB-39-KCT-601	35° in any direction	-40°C to +80°C	Casting Body for Heavy Conditions + Ball Float
CB-39-KCT-101	35° in any direction	-40°C to +80°C	Casting Body for Heavy Conditions + Extension Plate
CB-39HT-KCT-601	35° in any direction	-40°C to +190°C	Casting Body for Heavy Conditions + Ball Float
CB-39HT-KCT-101	35° in any direction	-40°C to +190°C	Casting Body for Heavy Conditions + High Temperature Resistance + Extension Panel
CB-39-B1	20° in any direction	-40°C to +80°C	Casting Body for Heavy Conditions + 20° Angle + Mercury Free
CB-39HT-B1	20° in any direction	-40°C to +190°C	Casting Body for Heavy Conditions + High Temperature Resistance + 20° Angle + Mercury Free
CB-R39	20° in any direction	-40°C to +80°C	Casting Body for Heavy Conditions + 20° Angle
CB-R39HT	20° in any direction	-40°C to +190°C	Casting Body for Heavy Conditions + High Temperature + 20° Angle
CB-39-C1	35° in any direction	-40°C to +80°C	Casting Body for Heavy Conditions + Steel Tubing for Cable Protection
CB-39-C2	35° in any direction	-40°C to +80°C	Casting Body for Heavy Conditions + Spiral Pipe for Cable Protection
CB-39HT-C1	35° in any direction	-40°C to +190°C	Casting Body for Heavy Conditions + High Temp. Resistance + Steel Tubing for Cable Protection
CB-39HT-C2	35° in any direction	-40°C to +190°C	Casting Body for Heavy Conditions + High Temp. Resistance + Spiral Pipe for Cable Protection

Cable length: 8.3 metres



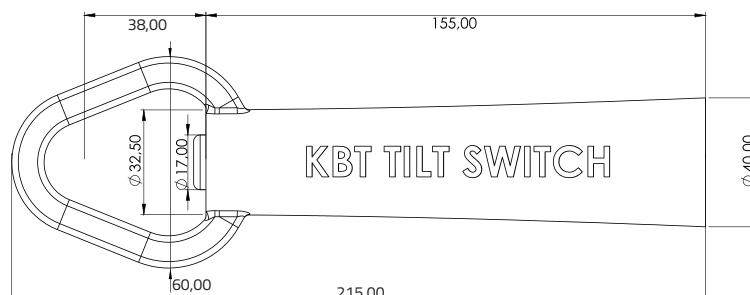
CB-39-C1
Tilt Switch with Cable Protection



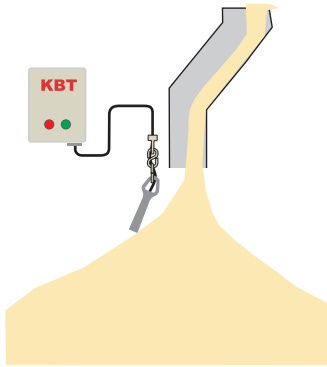
CB-39
Standard Tilt Switch



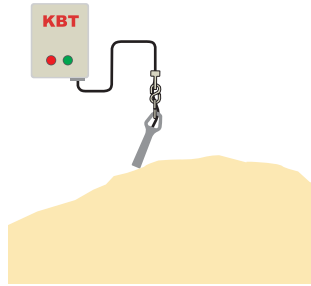
CB-39HT-C2
Tilt Switch with High Temperature Resistant Cable Protection



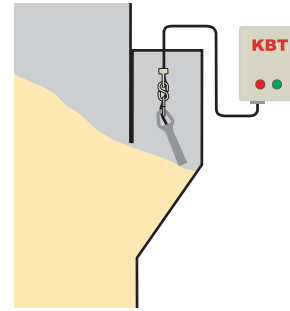
Types of Applications



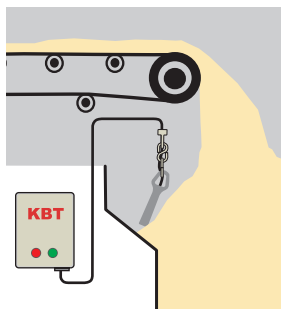
High Level



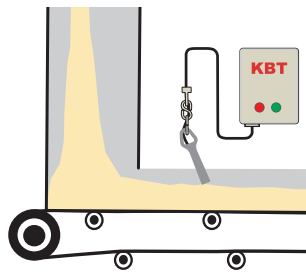
High Pile



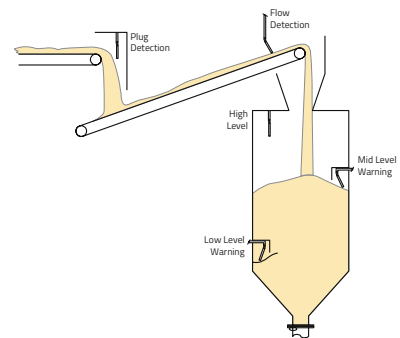
Low Level



Plugged Chute



Material Flow

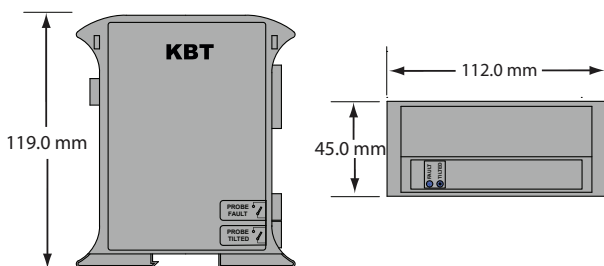


General Application

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

