

Blocked Chute Detector Tilt Switch - TS1 Smart Block

The TS1 Smart Block is designed to detect when conveyor chutes are blocked and will stop the conveyor to avoid spillage and damage to the belts.

The TS1 should be mounted (hanging) inside a chute at a level that the material doesn't normally reach during normal operation when the chute is not blocked. When a chute is blocked, material will build up from the bottom causing the tilt switch to tilt. Tilting of 35 degrees or more (either way) will cause the contacts to open and trip the conveyor.



IMPACT RESISTANT



NON-CORROSIVE

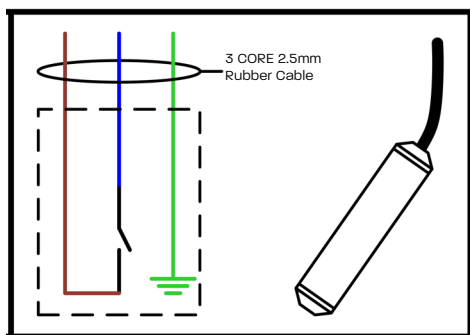
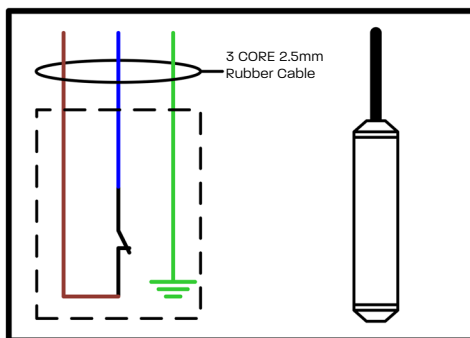


UV RESISTANT



CHEMICAL RESISTANT

STANDARD WIRING DIAGRAM



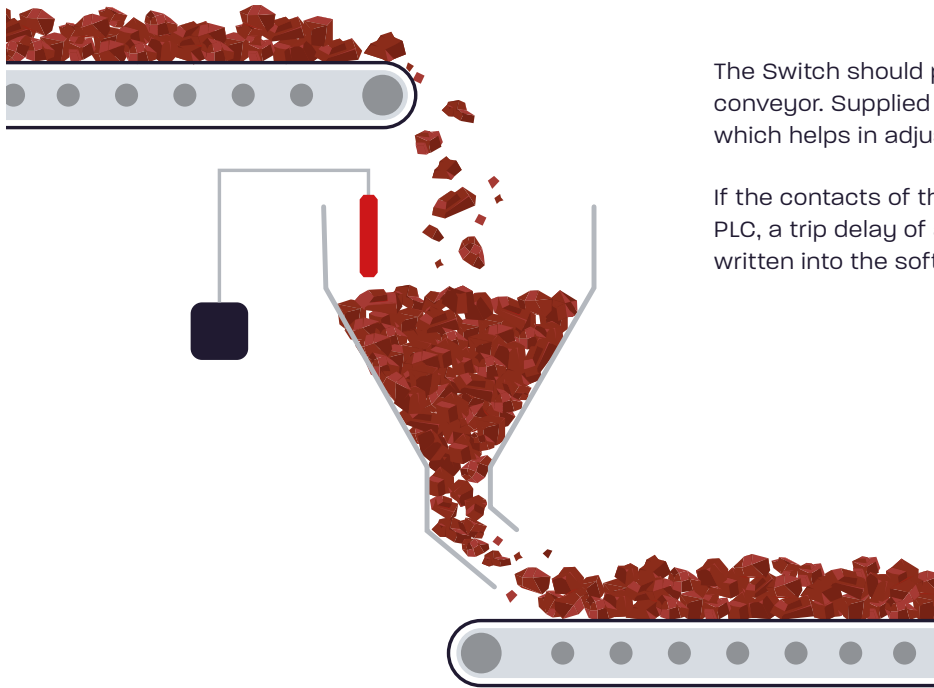
TECHNICAL SPECS

| | |
|-----------------------|------------------------------------------------|
| Material | Stainless Steel |
| IP Rating | IP68 |
| When Vertical | Normally Closed |
| Switch Current (Max) | 12.5A @ 120VAC 6.8A @ 220VAC 60A @ 24VDC |
| Contacts (Vertical) | 1 x NC |
| Switch Capacity | 1500VA |
| Resistance | 50hms |
| Contact Trip Angle | 35° |
| Operating Angle (Max) | 35°, 10° |
| Operating Temperature | -37 to +80° C |
| Cable Type | H07RN-F Rubber Cable |
| Cable Length | 6m |
| Core Thickness | 2.5mm ² |
| Brown/Blue Core | N/C (When in vertical position) |
| Yellow Core | Earth |

Blocked Chute Detector

Tilt Switch - TS1 Smart Block

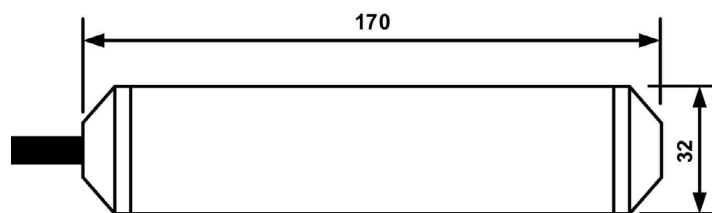
RECOMMENDED INSTALLATION



The Switch should preferably be mounted under the conveyor. Supplied with each TS1 is a cable wedge clamp which helps in adjusting the required height of the switch.

If the contacts of the switch is wired into an input of a PLC, a trip delay of approximately 2-3 seconds should be written into the software to eliminate nuisance trips.

DIMENSIONS 170mm (L) x 32mm (W)



ORDERING DATA

| | |
|-------------|----------------------------------------------------------------------|
| SSPD-TS1-WC | TS1 Tilt Switch, Blocked Chute Detector c/w Cable & Wedge Clamp |
| SSPD-TS1-WL | TS1 Tilt Switch, Blocked Chute Detection, Welded Loop Type c/w Cable |