Touch Switch for Conveyor Belt Misalignment Detection

SMARTsaa has developed Touch Switch for detection of Belt Misalignment.
The Touch Switch is an electromechanical limit switch. When a belt misaligns or a pulley moves over and presses the sensor face, the built in solid-state switch detects the displacement and actuates solid state switch. The signal is further processed in electronic control unit and relay is actuated and conveyor / machine can be stopped.
Ideally Touch Switch is to be used in pairs and to be mounted on both sides of conveyor belt. When belt dislocates, either of the switch gets activated. The controller is equipped with latching circuit; the output relay gets latched when any one of the switch is actuated.
The face of the sensor is made from hardened stainless steel, so that there is virtually no wear when a belt contacts it. The sensor is not affected by dust or material build up and will still work when completely covered by material. Sensors are normally installed in pairs on opposite sides of the machine. Usually a pair of sensors at each pulley is used, but additional pairs can be installed as required.
In case, controller is not required, the signal can be processed and latched in PLC for further interlocking.

Features:

• Force Activated Belt and Pulley Misalignment Sensor
• Instantaneous Misalignment Indication
• Hardened Stainless Steel Contact Face
• Output LED Indication

Technical Specifications:

- Power Supply to touch switch sensor: 12 -24 VDC
- Power Supply to Control Unit: 230 V AC
- Power Consumption - 60 mA
- LED Indication - Indicates Power and Relay
- Body Construction: Sensor Cast Al with SS Sensing face
- Control Unit: Field Mounted IP 65
- Face Construction - Hardened and Annealed Stainless Steel

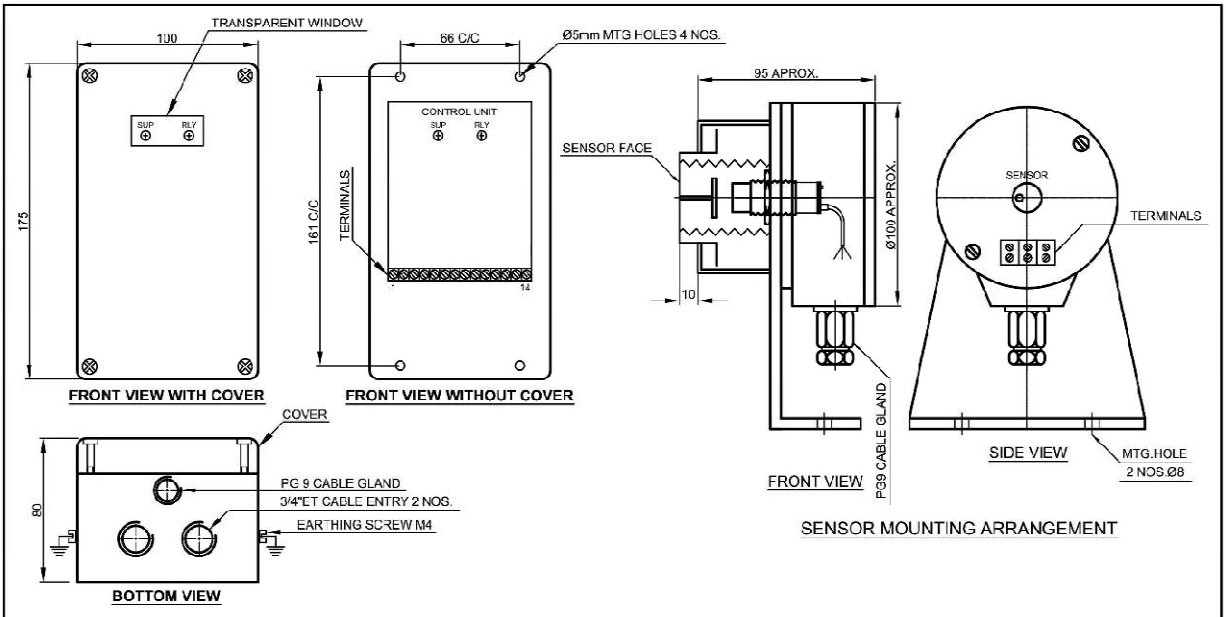


TOUCH SWITCH



FILED MOUNTED CONTROLLER

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TERMINAL DIAGRAM													
SUPPLY			SENSOR			RELAY							
0	110	230	+	I/P	—	P1	NO1	P1	NC1	P2	NO2	P2	NC2
1	2	3	4	5	6	7	8	9	10	11	12	13	14

	MATERIAL	FINISH	PROTECTION
CONTROL UNIT	CAST AL	LIGHT GRAY	IP 65

TOL. : OVERALL DIMENSIONS +/- 5mm & ON MOUNTING CENTRE DISTANCE +/- 3mm.

ALL DIMENSIONS ARE IN mm

SMART SENSORS AND AUTOMATIONS
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DRN BY : SUDHAKAR	TITLE : **BELT MISALIGNMENT SWITCH**	
APPD BY :		
DATE : 19/06/2020	DRG.NO : CD200619	TYPE : BMS
SCALE : 1:1	REV :	DATE :
CUSTOMER REF :		