

TOUCHSWITCH

TOUCHSWITCH Belt Misalignment Sensor

APPLICATION

The Touchswitch is an electro-mechanical limit-switch with no moving parts, that detects the misalignment of both pulleys and belts in conveyors and bucket elevators.

The sensor detects the lateral force of the belt or pulley and activates a voltage free relay contact. This relay contact can be used to send an alarm or shutdown the machine. The sensors are usually installed in pairs on opposite sides of the belt / pulley. The sensors can be connected directly to a PLC input, or for greater safety, to a central independent monitoring system, such as the IE-NODE, B400 Elite or the Watchdog Elite.

FEATURES

- ▶ **Hardened Stainless Steel Sensor Face**
- ▶ **Not affected by dust or material built up**
- ▶ **External Test Function**
- ▶ **Not a “Rub” Block**
- ▶ **NEMA 4X, IP66 Rated**

ACCESSORIES

- ▶ **TS-CORE-DRILL-57MM** - Core drill and Arber, 57mm diameter, steel
- ▶ **TS-MOUNT-4** - Mounting bracket - 4 studs



TS2V4CAI
(Conduit Entry)
U.S. Patent # 6,731,219
Other Patents Pending



Part Number	Type	Supply Voltage	ATEX/IECEx	CSA
TS2V34CAI	Conduit Entry	12-24Vdc	Zone 20	MET Class II Div1
TS2V34CAI-HT	Conduit Entry	12-24Vdc	Zone 20	MET Class II Div1
TS2V34CAI-FG	Conduit Entry	12-24Vdc	Zone 20	MET Class II Div1
TS2V4CAI	Conduit Entry	24Vdc	Zone 21	CSA Class II Div1
TS2V3CAI	Conduit Entry	12Vdc	Zone 21	CSA Class II Div1

COMPATIBLE CONTROL UNITS

Connect the Touchswitch directly to a PLC, or use with the optional IE-NODE, B400 Elite and *Watchdog Elite* digital monitoring systems for conveyors or bucket elevators. Belt alignment, belt speed, bearing temperature, pulley alignment, and plug condition monitoring in one complete standardized system.

IE-NODE



B400 ELITE



WATCHDOG ELITE

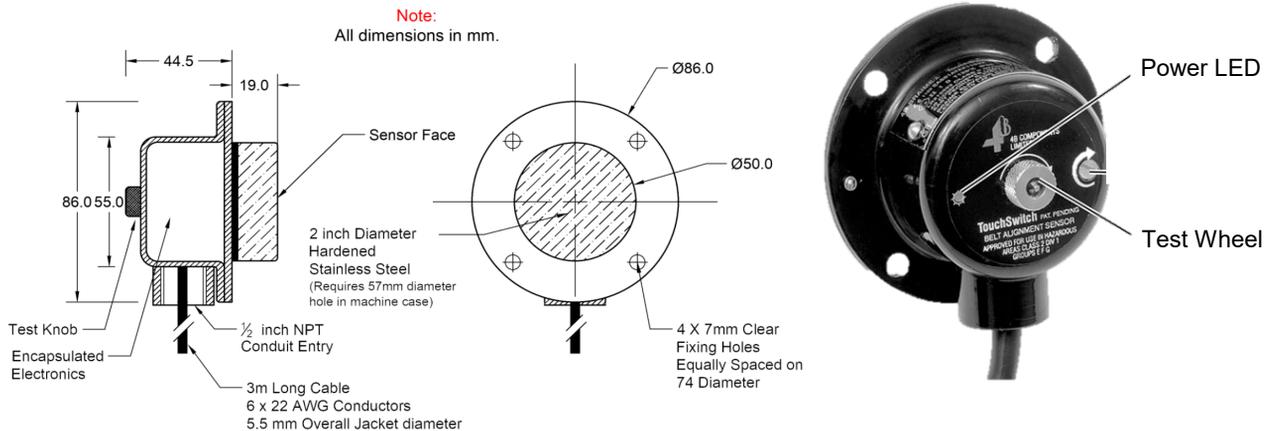


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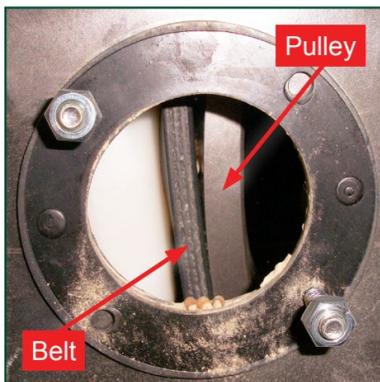
Technical Specifications

Supply Voltage	12Vdc or 24Vdc (see part numbers)
Supply Current	21mA (TS2V34CAI) & 60mA (TS2V4CAI & TS2V3CAI) max.
Output (TS2V34CAI)	Solid State Relay 240Vac/Vdc, 50mA Non-inductive
Output (TS2V4CAI & TS2V3CAI)	Volt-Free Contact Relay 250Vac, 5A Non-Inductive
Sensor State Indication	Red LED Indicated Power ON/NO Alarm for TS2V4CAI & TS2V3CAI & Green LED for TS2V34AI.
Cable	6 Core; 3 Meter Long
Sensor Face	Hardened Annealed Stainless Steel
Sensor Body	Pressed Seamless Steel with Epoxy Paint
Dimensions	Dia. 89mm x H 45mm
Weight	1.36kg
Fixing Centres	4 x M6 on 74mm diameter

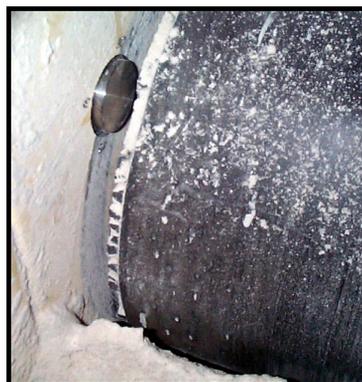
DIMENSIONS



Bucket Elevator Application



Enclosed Belt Conveyor Application



Open Belt Conveyor Application

