

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 T500 Hotbus or the Watchdog Elite.

FEATURES

- ▶ Hardened Stainless Steel Sensor Face
- ▶ No Moving Parts
- ▶ Not affected by dust or material built up
- ▶ External Test Function
- ▶ Not a "Rub" Block
- ▶ IP65 Rated



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



Part Number	Type	Supply Voltage	ATEX/IECEx	CSA
TS1V3AI	Cable Entry	12Vdc	Zone 21	Not Approved
TS1V4AI	Cable Entry	24Vdc	Zone 21	Not Approved
TS2V3CAI	Conduit Entry	12Vdc	Zone 21	Class II Div1
TS2V4CAI	Conduit Entry	24Vdc	Zone 21	Class II Div1

T500 ELITE



B400 ELITE



WATCHDOG ELITE



COMPATIBLE CONTROL UNITS

Connect the Touchswitch directly to a PLC, or use with the optional *T500 Elite Hotbus* 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.

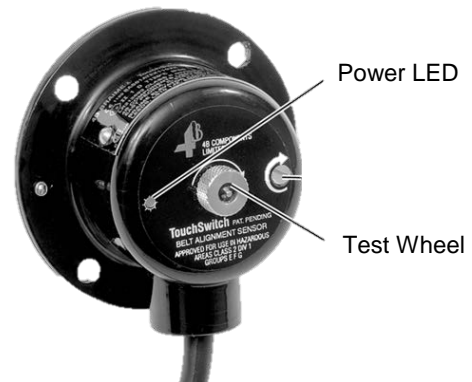
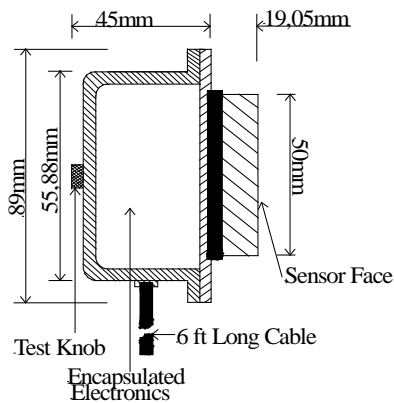
Please refer to instruction manual for correct installation.
Information subject to change or correction. Jan 2018

Detailed specification, wiring diagrams and installation/operating instructions available upon request.

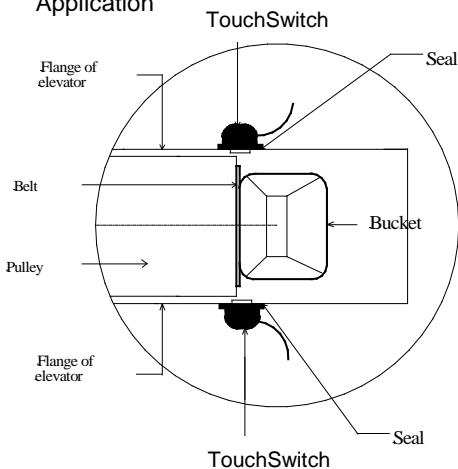
Technical Specifications

Supply Voltage	12Vdc or 24Vdc (see part numbers)
Supply Current	60mA max
Output	Contact Relay 250Vac, 5A Non-Inductive
Sensor State Indication	Red LED Indicated Power ON and NO Alarm
Cable	6 Core; 2 Meter Long
Output	Contact Relay 250Vac, 5A non-inductive
Sensor Face	Hardened Annealed Stainless Steel
Sensor Body	Pressed Seamless Steel with Epoxy Paint
Dimensions	Dia. 89mm x H 45mm
Weight	0.77 kg
Fixing Centres	4 x M6 on 73mm diameter

DIMENSIONS



Bucket Elevator Application



Enclosed Belt Conveyor Application



Open Belt Conveyor Application



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