

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 solid state 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 Super 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
- ▶ IP66 Rated



TS2V34AI

U.S. Patent # 6,731,219
Other Patents Pending



Part Number	Type	Supply Voltage	ATEX/IECEx	CSA
TS2V34AI	Conduit Entry	12-24Vdc	Zone 20	Not Approved

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.

T500 ELITE



WATCHDOG SUPER ELITE



B400 ELITE

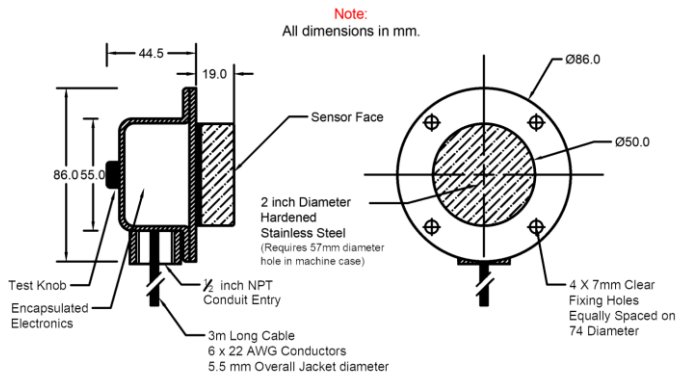


Please refer to instruction manual for correct installation.
Information subject to change or correction. July 2018

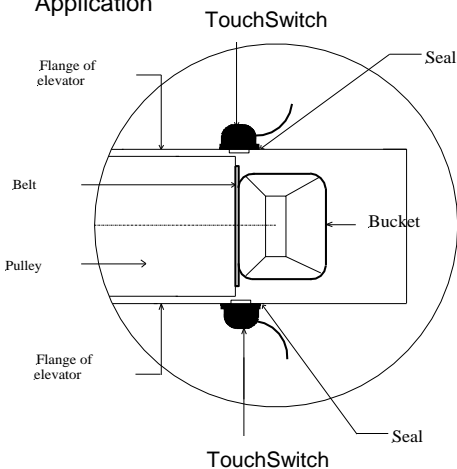
Technical Specifications

Supply Voltage	12Vdc or 24Vdc (see part numbers)
Supply Current	21mA max
Output	Normally open solid state relay; 50mA @ 240 VAC/VDC (MAX); non-Inductive
Sensor State Indication	Green LED Indicated Power ON and NO Alarm
Cable	6 Core; 3 Meter Long
Sensor Face	Hardened 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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Detailed specification, wiring diagrams and installation/operating instructions available upon request.