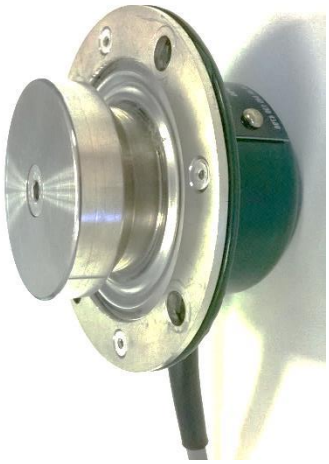
Tapswitch

Belt Misalignment Sensor



APPLICATION

The Tapswitch is a 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

PART NUMBERS/ACCESSORIES

- TP12AI – Cable Entry Touchswitch
- TP22AI – Conduit Entry Touchswitch
- TS Spacers–additional spacers available to adjust position relative to belt

TP2
Conduit entry

COMPATIABLE CONTROL UNITS

Connect the Tapswitch 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

B400 ELITE

WATCHDOG ELITE

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

Please refer to instruction manual for correct installation.
Information subject to change or correction. Aug 2012

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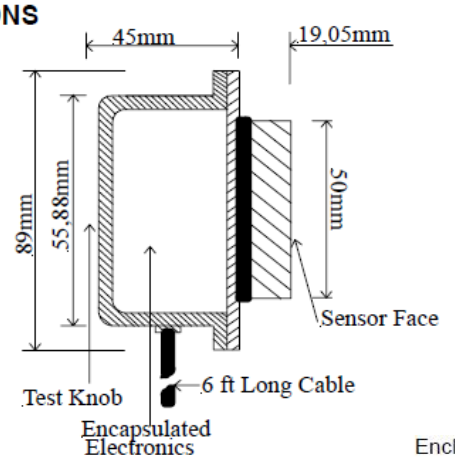
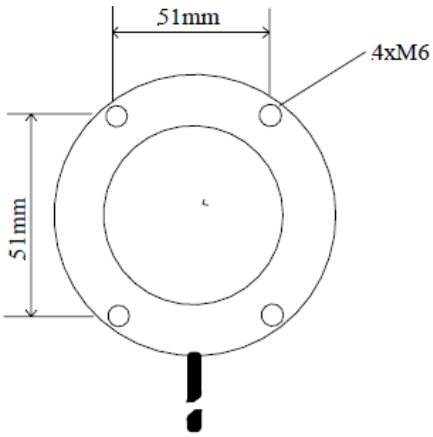
TAPSWITCH

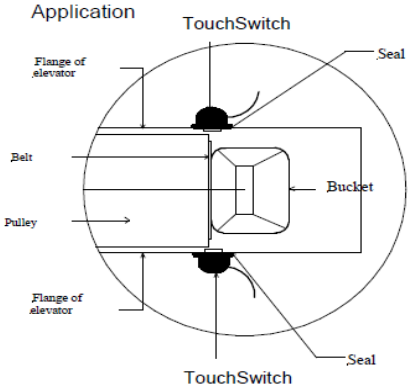
TECHNICAL SPECIFICATIONS	
Type	TP12TAI
Approval	Ex II 2D Ex tb IIIC Db T80°C Tamb -20°C +40°C
Switching Voltage	250 VAC/VDC
Power consumption	0
Output	voltage free relay contact 1.5A 250VAC not inductive
Activation	5 Kg approx. (not adjustable)
Cable	6 wire 3 meters long
Body construction	Pressed seamless steel with epoxy paint
Face construction	Steel
Protection	IP 66
Weight	0,8 Kg
Fixing point	51x51 mm
Dimensions	Diam. 86x45 mm

DIMENSIONS





Bucket Elevator Application



Enclosed Belt Conveyor Application

Open Belt Conveyor Application

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