

Protect your valuable conveyor belt from severe damage caused by belt misalignment, prevent costly downtime and increase production with Conveyor Components Company's Model VA belt alignment control. Designed for use on bucket elevators, the Model VA ensures that your belt is tracking properly.

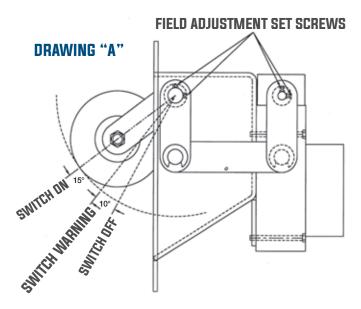
Normally installed in pairs on each side of the conveyor belt near the head pulley and/or the tail pulley, these heavy-duty controls consist of a conveyor roller with sealed bearings, four bar linkage and a double pole/double throw microswitch. The roller detects any belt run-off and will trigger the first pole of the microswitch to sound a warning alarm, illuminate an indicator light, or stop the conveyor completely when the vertical belt strays beyond 10° from horizontal. The second pole is triggered when the belt strays 25° from horizontal and can be wired to stop the conveyor motor. To eliminate false signals the controls should be mounted about one inch away from the belt. For high speed conveyors a breakaway mount is recommended. In the event of a run-off, the control unit performs its job of shutting down the conveyor and the breakaway mount allows the control itself to get out of the way of damage.

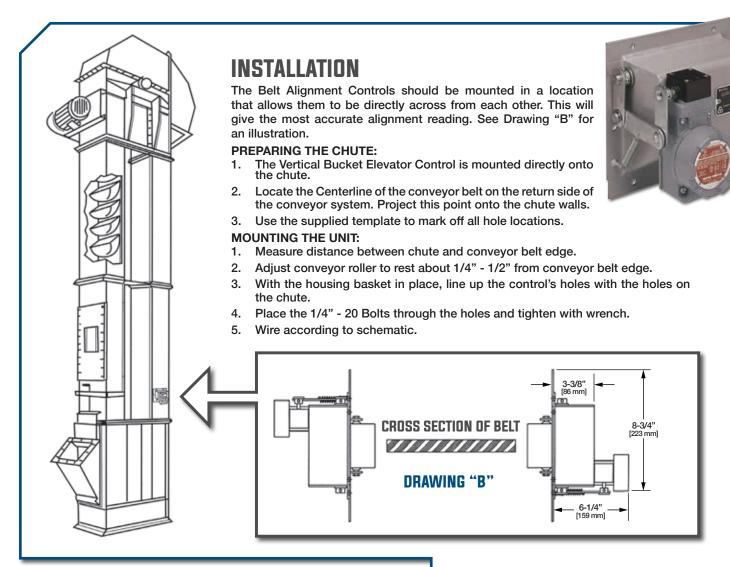


HOW IT OPERATES

The main components of this Belt Alignment Control are a conveyor roller with sealed bearings, a four bar linkage, and the Microswitch. The control has double pole/double throw circuitry. The four bar linkage connects the roller's pivot shaft to the switch actuator. The roller is held into position by roll pins and set screws.

When the roller is displaced 15°, the first pole of the switch is triggered. This pole can be wired to sound a warning alarm, light an indicator light, or stop the conveyor. The second pole is triggered after the roller is displaced an additional 10°. This pole could also be wired to stop the conveyor motor. Drawing "A" shows a range of roller orientations and the allowable travel for each stage.





MODEL	DESCRIPTION	SHPG. WT.
VA	General Purpose - NEMA 4	12 lbs.
VA-X	Explosion Proof - NEMA 7-9	12 lbs.

SPECIFICATIONS

EXPLOSION PROOF MICROSWITCH

- Meets NEMA Standards: 1, 3, 4, 6, 7, 9 and 13
- Class I, Div. 1, Groups B, C and D
- Class II, Div. 1, Groups E, F and G
- UL Listed and CSA Listed

GENERAL PURPOSE MICROSWITCH

- Meets NEMA standards: 1, 3, 4, 6 and 13
- UL listed and CSA Listed

ELECTRICAL OUTPUT

- Double Pole/Double Throw
- 10 Amp 120, 240, 480 VAC
- 0.8 Amp 120 VDC
- 0.4 Amp 240 VDC
- Conduit Connection: 3/4" NPT

WIRING SCHEMATIC SEQUENCE 3 4 8 7 2 1 5 6 SEQUENTIAL. POLE 1 OPERATES BEFORE POLE 2.

