

## Bulldog Conveyor Belt Misalignment & Rip Detection Switch

### APPLICATION

The range of Bulldog misalignment and rip detection electro-mechanical switches are designed to detect dangerous misalignment and/or rip on open belt conveyors.

### METHOD OF OPERATION

The switch will detect horizontal misalignment of belts. When contact is made with the roller, the roller arm will be forced to pivot by the belt, activating a switch at **20°** to trigger an alarm, and **35°** to trigger a conveyor shut down. The switches are usually installed in pairs on opposite sides of the belt.

For belt rip detection, a flexible cable is set below the running conveyor belt approximately 20-30mm. It is attached by a rare earth magnet at each end and if the belt is ripped or damaged, it will impact the cable to disconnect the magnet from the Bulldog and trigger a conveyor shutdown.



### FEATURES

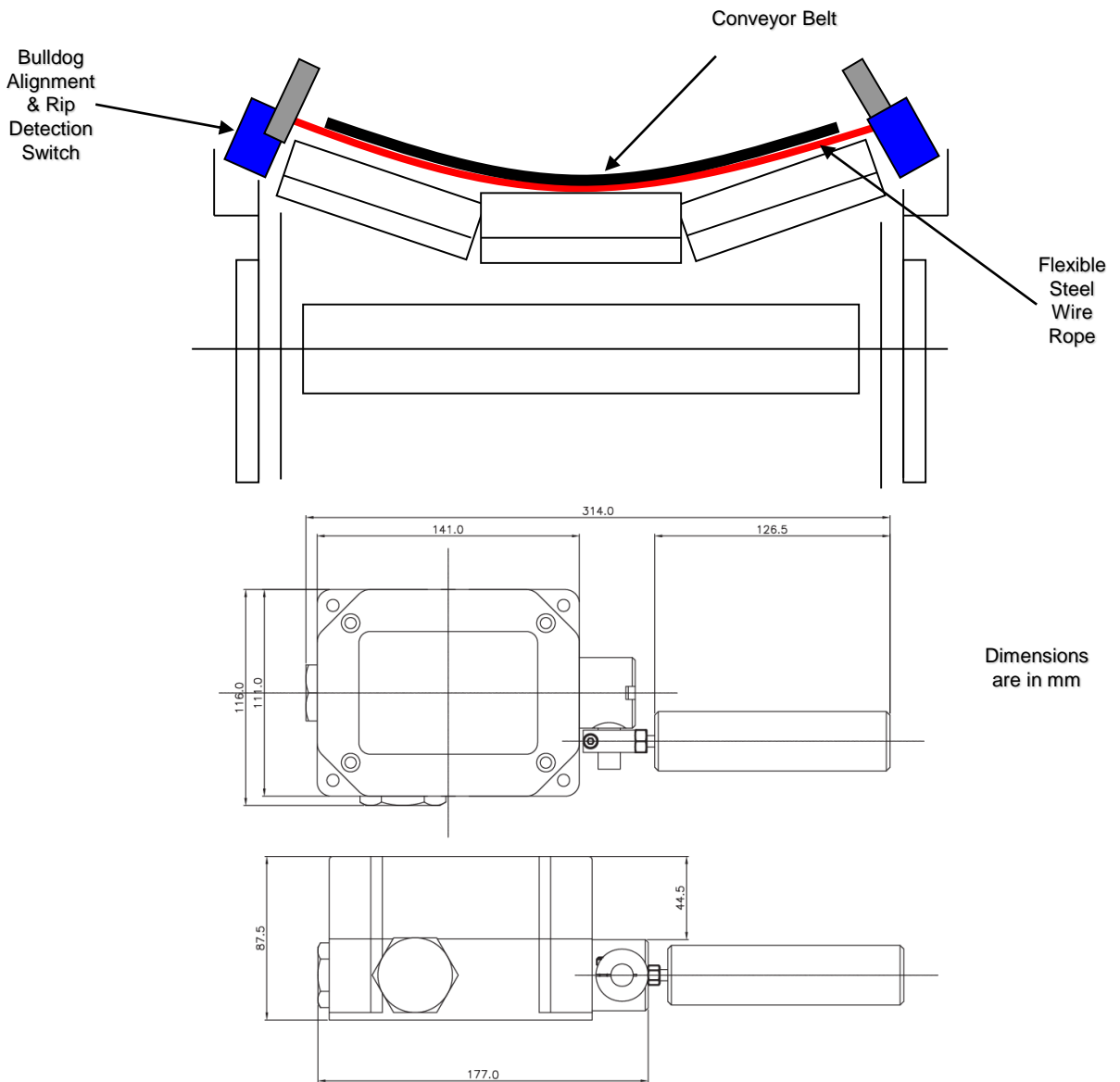
- ▶ ATEX and IECEx Zone 21 Approved, CSA Approval Pending
- ▶ Easy Installation
- ▶ No Calibration Required
- ▶ Robust Design
- ▶ 20° Belt Misalignment Alarm
- ▶ 35° Belt Misalignment Shutdown

### PART NUMBERS/ACCESSORIES

- ▶ MBA2AI Mechanical Belt Misalignment Switch
- ▶ MBR2AI Mechanical Belt Rip Switch
- ▶ MBA2RAI-SF Combined Mechanical Belt Misalignment and Belt Rip Switch (with SS Fittings)
- ▶ KIT-BRW Belt Rip Detection Cable
- ▶ WDC4V46C Watchdog Control Unit (120 – 240 VAC / 24VDC)
- ▶ ETH-NODE1V4C IE-NODE 1 (24 VDC)

# Bulldog

BETTER BY DESIGN



## TECHNICAL SPECIFICATIONS

<b>APPROVALS</b>	ATEX / IECEx ZONE 21
<b>SUPPLY</b>	12-24VDC and 110-240VAC
<b>RATING</b>	5 Amps (must be fused externally)
<b>CONTACT ALARM</b>	1 Voltage Free Changeover Contact; 6 Amps; 240VAC (non inductive)
<b>CONTACT STOP</b>	1 Voltage Free Changeover Contact; 6 Amps; 240VAC (non inductive)
<b>CONTACT RIP</b>	1 Voltage Free Contact; NC; 2.1 Amps; 240VAC (non inductive)
<b>DIMENSIONS (H x L x W)</b>	88mm x 314mm x 116mm
<b>CABLE ENTRY</b>	1 x M25
<b>WEIGHT</b>	2.7 lb / 1.2 kg
<b>Protection</b>	IP66

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