

Conveyor Belt Alignment & Rip Detection System



APPLICATION

The Bulldog alignment and rip detection switch is an electro-mechanical system designed to detect dangerous misalignment of the conveyor and also detection of belt tear damage.

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 shut down** procedure of the conveyor. The sensors are usually installed in pairs on opposite sides of the belt.

A steel flexible wire is set below the running conveyor belt approximately 20-30mm attached by a rare earth magnet at each end. If the belt is ripped or damaged the wire is pulled away releasing the magnet connection which in turn will activate a switch.

FEATURES

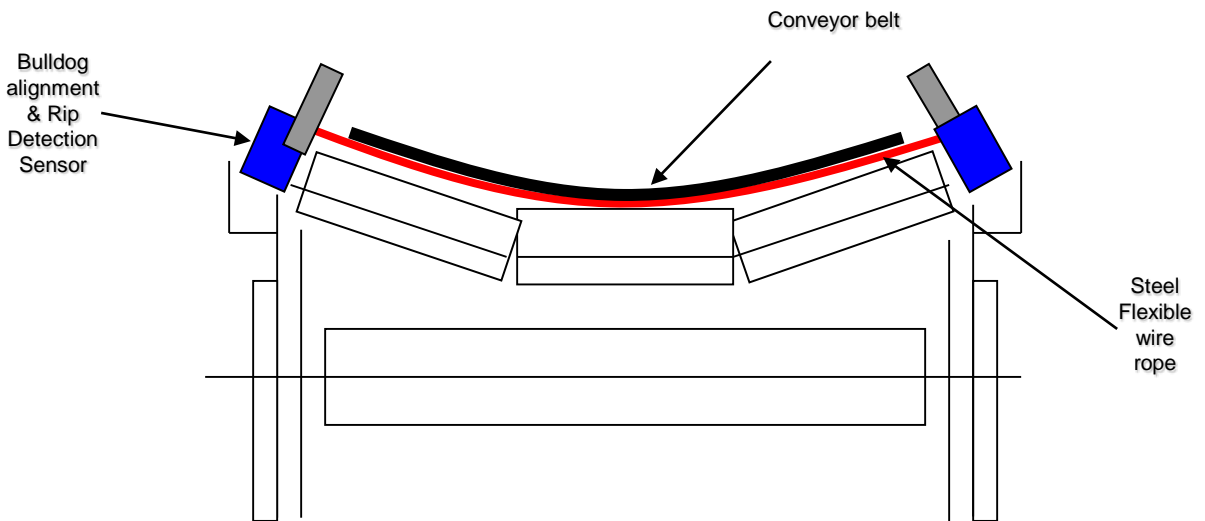
- ▶ ATEX an IECEx Zone 21 Approved
- ▶ Easy installation
- ▶ No calibration required
- ▶ Robust design
- ▶ 20° Alarm output
- ▶ 35° Stop output

PART NUMBERS

- MBA2A** - Mechanical Belt Alignment
- MBA2RA** - Mechanical Belt Alignment with belt rip
- MBR2A** - Mechanical Belt Rip



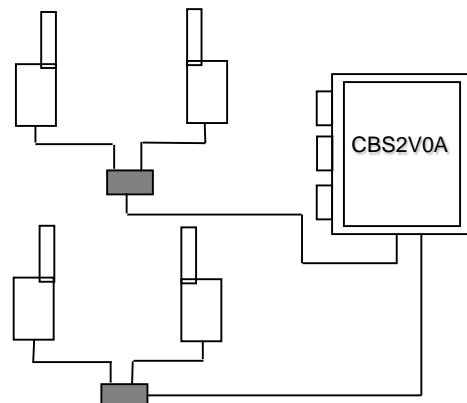
TECHNICAL SPECIFICATIONS	
TYPE	MBA2A, MBR2A, MBR2A
APPROVALS	ATEX ZONE 21
SUPPLY	12-24VDC and 110-240VAC
RATING	5 Amps (must be fused externally)
CONTACT ALARM	ALARM: 1 Contact NO; 6 Amps; 240VAC (non inductive)
CONTACT STOP	STOP: 1 Contact NO; 6 Amps; 240VAC (non inductive)
DIMENSIONS	Height x Length x Width
	88mm x 314mm x 113mm
CABLE ENTRY	1 x M25
WEIGHT	1.2Kg



Accessories

- T500 HOTBUS Site-wide monitoring System
- WDC4 – Watchdog Super Elite
- CBS2V0A – Control unit 110 / 240vac
- MBA2SR – Stainless steel rollers
- BRW – Belt Rip adjustable Wire rope with magnets & I bolts

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



Please refer to instruction manual for correct installation.
Information subject to change or correction. Jan 2017.