BULLDOG

Bulldog

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

MBA2AI - Mechanical Belt Alignment MBA2AI-SS - Mechanical Belt Alignment with 126.5mm Stainless Steel Roller MBA2SS-0150 - Mechanical Belt Alignment with 150mm Stainless Steel Roller MBA2RAI- Mechanical Belt Alignment with belt rip MBA2RAI-SS - Mechanical Belt Alignment with belt rip and 126.5mm Stainless Steel Roller MBARSS-0150 - Mechanical Belt Alignment with rip and 150mm Stainless Steel Roller MBR2AI - Mechanical Belt Rip only MBA2AI-SF - Mechanical Belt Alignment with Stainless Steel Fittings

MBA2RAI-SF - Mechanical Belt Alignment with belt rip with Stainless Steel Fittings

Additional Parts Available

MBA2SR-126 - 126.5mm Stainless Steel Roller Modkit (to upgrade existing unit from standard Nylon Roller)

Detailed specification, wiring diagrams and installation/operating

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4B GROUP 4b-group@go4b.com instructions available immediately upon request.

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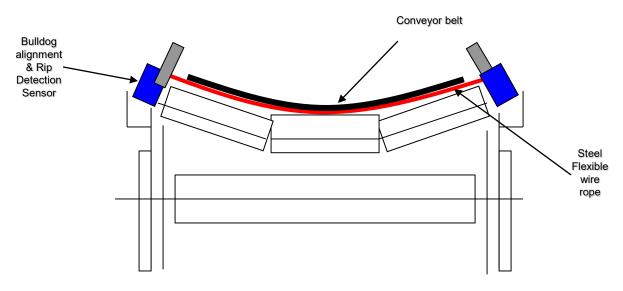


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TECHNICAL SPECIFICATIONS

TYPE	MBA2AI, MBR2AI, MBA2RAI, MBA2ASS, MBA2RSS
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
- IE Node (Industrial Ethernet Node)
- WDC4 Watchdog Super Elite
- MBA2SR Stainless steel rollers
- BRW Belt Rip adjustable Wire rope with magnets & I bolts (made on demand and request on custom lengths are available)

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

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