

# Conveyor Belt Alignment & Rip detection System



New  
Product

## 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 **15° to trigger an alarm, and 30° 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 approx 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

- ▶ Easy installation
- ▶ No calibration required
- ▶ Robust design
- ▶ 15° Alarm output
- ▶ 30° Stop output

## PART NUMBERS

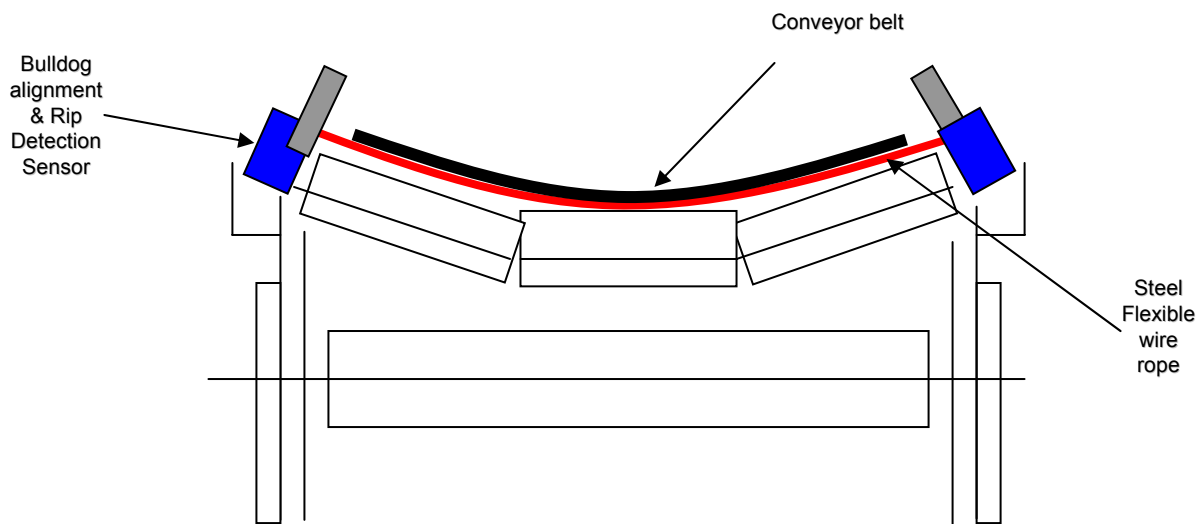
- MBA2A** - Mechanical Belt Alignment (ATEX)
- MBA2** - Mechanical Belt Alignment (Non ATEX)
- MBA2RA** - Mechanical Belt Alignment with belt rip (ATEX)
- MBR2A** - Mechanical Belt Rip (ATEX)
- MBR2** - Mechanical Belt Rip (Non ATEX)



ATEX APPROVED

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

TECHNICAL SPECIFICATIONS	
TYPE	MBA2A, MBA2, MBAR2A, MBR2
APPROVALS	ATEX ZONE 22
SUPPLY	240Vac
RATING	6amps
CONTACT ALARM	ALARM: 1 Contact NO 6a 240vac non inductive
CONTACT STOP	STOP: 1 Contact NO 6a 240vac non inductive
DIMENSIONS	Height x Length x Width
	88mm x 314mm x 113mm
CABLE ENTRY	1 x M25
WEIGHTS	1.2Kg



**Accessories**

- ▶ MBA2RA – Mechanical Alignment sensor including Belt Rip
- ▶ CBS2V0A – Control unit 110 / 240vac
- ▶ MBA2SR – Stainless steel rollers
- ▶ BRW – Belt Rip adjustable Wire rope with magnets & I bolts

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