bramco ELECTRONICS

Belt Rip Detector

BRAMCO ELECTRONICS Product Sheet

Application:

The Bramco Belt Rip Detection Unit has been manufactured to detect beltrips on Conveyor belt systems.

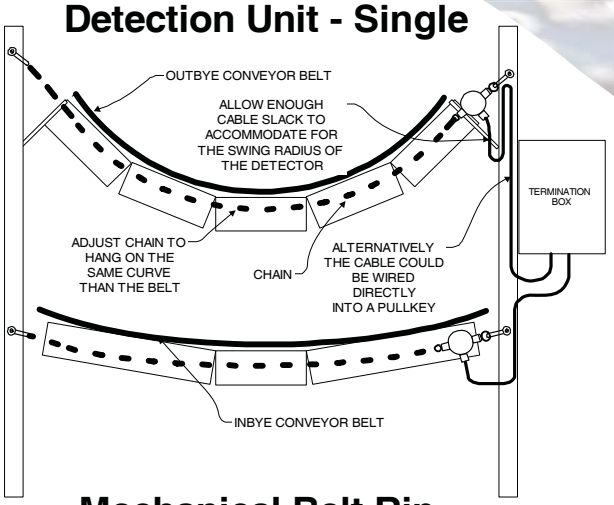
Operation:

When a belt rip occurrs the belt will catch the ripcord at the bottom and pull the pin out of the box. This action will cause the micro switches to operate and could be wired to stop the belt.

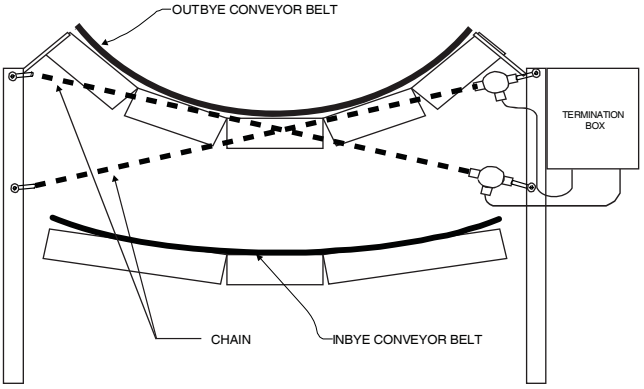
Features:

- Housed in a robust IP 68 Enclosure.
- Tripping contacts can be wired into any existing tripping or monitoring mechanism.
- Pin shearing is avoided as the pin box swivels in the direction of the pulling action.
- 2 x NO and 2 x NC contacts.
- Solid pin lock mechanism.
- Any termination box can be used to accommodate electronics.
- Cost effective with no maintenance required under normal conditions.
- Operation is not affected by Water, dust, dirt or mud.
- Stainless pull pin sealed with rubber o-ring.
- Proven over many years of use in a hostile mining industry.
- Steel cable ripcord. (Optional)

Mechanical Belt Rip Detection Unit - Single



Mechanical Belt Rip Detection Unit - Dual



Bramco Belt Rip anchored with a 12mm D Shackle.

The 6mm galvanised chain installed to hang at the same curve as the conveyor.

The other end of chain anchored with a 6mm D Shackle, which is adjustable.

Switch connections inside Rip Detector. Pin is held in position with two spring loaded ball bearings.

BRAMCO
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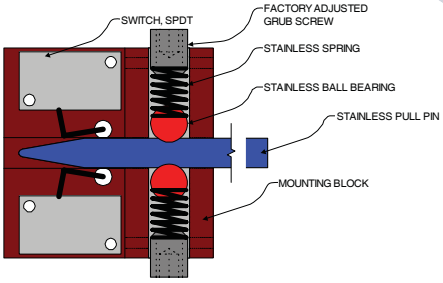
INSTALLATION INSTRUCTIONS

Your Belt Rip Detector is best installed by two persons.

1) Follow isolating procedures and make sure that the belt is isolated and safe to work on.
2) Fit the pin into its locking position inside the rip detector
3) With one person on the one side," 1 " of the conveyor and another person on the other side," 3 " of the conveyor, hang the chain so that you get an even clearance between the chain and the belt. See: " 5 "
4) For best coverage, make sure that the rip detector is outside the moving area of the belt. See: " 2 "
5) If required the length of the chain can be adjusted at the D shackle at the chain fixing point. " 6 "
6) Never adjust the chain length at the belt rip D shackle.
4) Mark the fixing points and fit the D shackles on the marked positions.
5) See cable requirements. " 4 "
8) Never fit the rip detector enclosure solidly onto a flat surface. This will cause the stainless pull pin to sheer of in the event of a trip condition, and will prevent the belt from tripping.

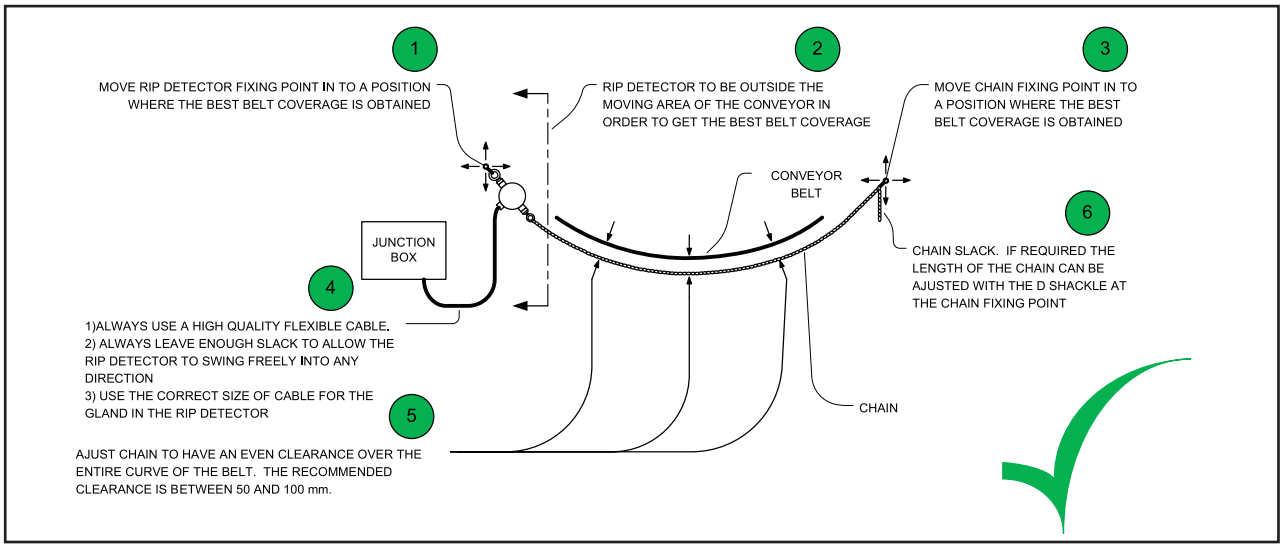
SOLID PIN LOCK MECHANISM

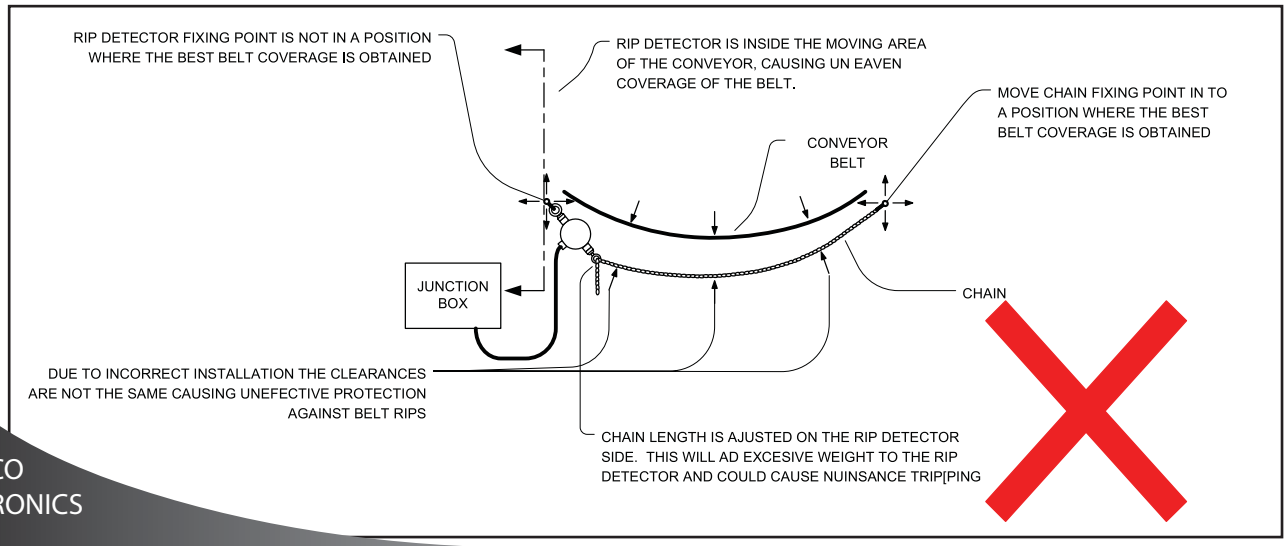


Ordering Information:

Order Code

A01385 Belt Rip Detector





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