



Continental MultiProtect TX

High-performance rip detection system and splice monitoring functionality for textile and pipe conveyor belts

Detect and stop catastrophic belt failure events.
Increase system uptime and belt life.



Mining &
Quarry



Coal



Metals



Aggregates

Belt Rip and Splice Monitoring

MultiProtect TX is a permanent magnetic system that detects rips and splice distortion in textile belts by monitoring embedded, magnetized rip inserts. Available for both new belt installations and existing belt upgrades, MultiProtect TX utilizes flat and custom profile sensors that can monitor for damage to reduce the impact and loss related to these issues. MultiProtect is also available for steel cord and pipe belts.

Key Features

Cover Requirements

Longitudinal Rip Detection

- Equally spaced embedded rip insert design
- Establishes rip insert map
- Monitors rip insert images

Splice Monitoring

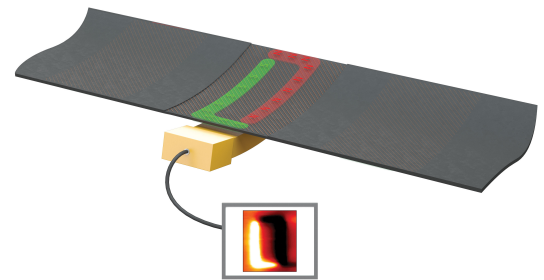
- Splice condition monitoring
- Magnetic image of splice
- Chronological images of splice

Sensors

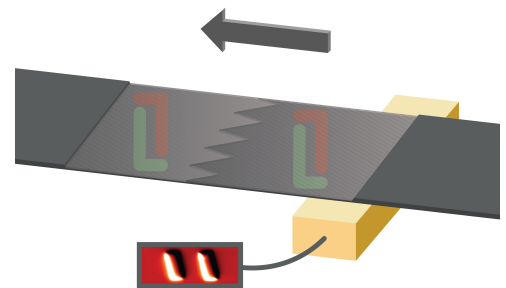
- Custom profile sensors. Flat sensors available as well.
- Detection options at multiple points
- Belt tracking at point of detection
- Combined rip and splice monitoring insert

Cover Requirements

- Top or bottom cover thickness must be over 5 mm (3/16 in)



Longitudinal Rip Monitoring



Splice Distortion Monitoring

Technical Key Data

Belt Speed	Up to 10 m/s (32.8 ft/s)
Belt Width	600 mm (23.6 in) to 3200 mm (137.7 in) standard, wider possible with custom design
Temperature Range	-40°C (-40°F) up to 70°C (158°F)
Humidity	20% to 90% RH (non-condensing)
System Output	Relays; Ethernet TCP/IP; Modbus TCP (PROFIBUS option available)
Input Voltage	110/220 VAC ; 24 VDC option available
IP Class	65

Customer benefits

- Enables earlier detection to help reduce unplanned downtime
- Helps limit maintenance costs by reducing secondary damage risk
- Supports longer belt service life through timely repairs
- Supports maintenance planning with PDF condition reports