EDT®101
Pneumatic Derailment Detector

APPLICATIONS
Freight Cars | Transportation of Hazardous Goods
EDT®101 ACTIVATES AN AUTOMATIC EMERGENCY STOP IN CASE OF DERAILMENT. This detector has demonstrated its value through many years of in-service operation around the world.

**DESIGN / FUNCTION**
Consisting of an emergency brake valve, a mounted spring-mass valve and an indicator device, EDT®101 senses an increase in vertical acceleration and this is registered by the spring-mass valve. This immediately activates the emergency brake valve which opens the main brake pipe and releases the emergency brake. The main brake pipe is almost immediately vented. Then, the EDT®101 returns to its ‘normal’ operational position independently and a red pin on the indicator device highlights which of the units has triggered. The indicator pin can easily be reset manually. The detector can also be deactivated manually at any time through the stopcock located in the bracket of the device.

**CUSTOMER BENEFITS**
- Reduces damage caused by derailment
- Increases safety for passengers, goods and the environment
- Immediate train brake activation when a derailed axle is recognised
- Easily retrofitted to existing wagons
- Highly reliable
- Cannot be activated accidentally
- Independent system
- UIC homologated
**INSTALLATION**
- Two derailment detectors per vehicle
- Mounted at a strategic position on the chassis of the wagon
- Easily connected to the main brake pipe (using a branch flange)
- Mounted on a special bracket with integrated stopcock

**TECHNICAL SPECIFICATION**
- Secure triggering vertical acceleration: > 11.5g (0 - 100Hz)
- Secure non-trigger vertical acceleration: < 6.5g (0 - 100Hz)
- Medium: Treated air (DIN/ISO 8573-1)
- Service pressure: 5 bar
- Maximum pressure: 8 bar
- Connecting pipe: Min. Ø 19 mm
- Venting pipe: Min. Ø 19 mm
- Operational temperature: -40 °C up to +70 °C

**SCHEME**
- A: Indicator device
- B: Spring-mass valve
- C: Emergency brake valve
- P: Compressed air connection, main air pipe
- R1: Air outlet, main air pipe
- R2: Air outlet, control air