



# Transmission Over Temperature Switch

from Unipart Rail

Solid state electronic temperature sensor for monitoring transmission temperature



Direct replacement for mechanical sensor with no moving parts

LED indicator with temperature read-out and flashing light when activated

Alarm signal can be relayed to cab (optional)

Fitted to a wide range of diesel fleets

Ease of retro-fitting to existing Voith transmission systems

Allows visual fault finding diagnosis

EMC compatible and IP67 protected

Fully tested and certified

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As a safety critical item, the Transmission Over Temperature Switch has a vital role in monitoring the temperature of the gearbox oil. Should the temperature of the gearbox oil rise to over 140°C, the engines are forced into 'idle only' mode, which restricts the speed of the engines to prevent the occurrence of significant damage to the transmission system.

**Conventional temperature switches incorporate a mechanical bi-metallic design which have a number of operational issues, for example:**

- Difficult to identify that the switch has tripped.
- Unreliable mechanical bi-metallic strip design.
- Premature activation places vehicle into 'forced idle only' mode unnecessarily.
- Requirement of periodic maintenance and overhaul.
- Switch does not allow reset function following reduction of oil temperature.



**Unipart Rail have developed a Solid-state electronic Transmission Over Temperature Switch to overcome the issues of conventional mechanical temperature switching devices currently used with Voith Transmission systems. The benefits of the Unipart Rail product include:**

- Solid state electronic design with full Approvals.
- 4 Digit alphanumeric display indicating live temperature of the medium.
- Accurate temperature monitoring.
- LED indication of when the switch has tripped.
- Automatic reset function following reduction in temperature.
- IP67 protection.
- EMC, Shock & Vibration compliance to Rail Specifications.
- No requirement of maintenance or overhaul throughout product lifecycle.

The Transmission Over Temperature Switch is approved for use with Voith transmission systems on Class 14x and 15x vehicles and can also be used in a wide range of applications to monitor the temperature of alternative mediums.

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