Railway Sensors

Railroad Solutions

Speed and Temperature Sensors for Use on Locomotives and Railroad Cars

High quality, cost effective alternative to OEM replacement sensors

Traction Motor Sensor w/two-piece design

- A wide range of speed and temperature sensors to fit most EMD & GE locomotive models
- Built for the demanding Railway environment with stainless steel housings, molded strain relief and multiple rugged termination options
- Two and Three-Piece designs that can lower Total Cost of Ownership:
  - Only purchase the sensing or cabling component for replacement
  - Reduced replacement time by leaving the mounting bock in place
  - More sustainable - mounting block never needs to be discarded
- Standard and custom wiring harnesses available

The ability to detect motion/speed and temperature from various components across the Train is critical input for a Positive Train Control systems and essential for locomotive operation. But with the need to keep dozens of sensors in working order, repair & replacement costs can put a dent in your mainteance budget. An option, other than sourcing a replacement from the locomotive OEM, exists that can reduce your costs in both the short and long term.

For over 40 years, Smith Sensors Inc (SSI) has produced sensing decives for use in the harshest environments, including the US Space Program. Manufactured in Norh Carolina to the most exacting standards, SSI senors for Railway applications are typically a lower cost alternative to an OEM replacement that can often lengthen and simplify future replacement cycles. Patented two and three-piece sensor designs make future replacement quick and cost effective as the mounting block can be reused, with just the sensor element or cable being replaced.

Active & Passive Speed and Motion Sensors

- Traction Motor
- Diesel Motor
- Blower
- Compressor
- Crankshaft
- EFI Engine Position
- Engine Crank

Temperature Sensors

- Ambient Air
- Engine Water & Lube
- Manifold Air
- Intercooler Water
- Turbo Inlet Air
- Preturbine Right/Left
- Battery
- Bearings

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