



Smith Systems railway speed and temperature sensors offer an unparalleled quality experience and a lower total cost of ownership



Traction Motor Sensor w/two-piece design



Active & Passive Speed and Motor Sensors



Temperature Sensors for Air, Water & Lubricant

A relentless commitment to quality is why you can find Smith Systems Inc. sensors in use on the locomotives of six Class 1 Railroads. Having supplied the Railway market since the company's inception 45 years ago, SSI sensors are designed to survive in the harshest environments and are used by Railroads across the globe to improve operational performance, increase safety, and reduce maintenance costs.

Quality Data

Mean Time to Failure ¹ 3.9 Million Hours

First Pass Yield Rate ² 99.9%

Warranty Replacement Data³

Sensor Type	Shipped Qty	Replaced	%
Active (Z Models)	197,461	130	0.0658%
Passive (A Models)	272,685	99	0.0363%
Total	470,146	229	0.0487%

1 Model # TS-Z262581 used for the test. Test conducted @ 20° C ambient with PCBs and internal components :30°C (RISE = 10°C) and in accordance with MIL-HDBK-217F Notice 2

2 Based on 2022 Manufacturing data

3 Warranty & Manufacturing data from 2014 - 2023

What Makes SSI Sensor Quality Superior?

- Strict adherence to advanced manufacturing standards - ISO9001 Certified, IRIS Certified, ATEX Certified
- Deep analysis of failure modes of SSI and other vendor's sensors, leading to improved design and enhanced manufacturing processes
- A customer intimacy developed over nearly a half of century that leads to products that are purpose built to stand-up to the operating environment
- Strict quality control around potential points of failure including soldered connections and application of potting material

