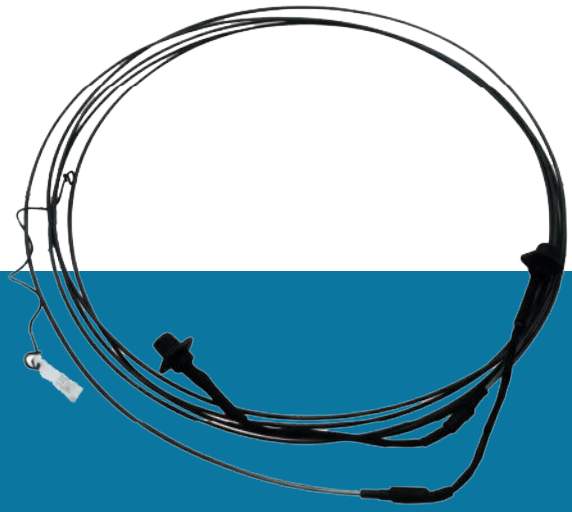
NERO INDUSTRIES
Advanced Reliability

Uninterrupted Detection, Anywhere.



LINEAR HEAT SENSOR (INCOCT-W)

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The Linear Heat Detection Sensor is engineered to provide maximum protection under harsh environmental conditions within military and automotive platforms.

Constructed with Inconel-sheathed wire, the sensor ensures long-term stability and performance without degradation, even under extreme heat and chemical exposure.

The system is fully compliant with EMI/EMC military standards, ensuring immunity to false alarms and maintaining signal integrity under electromagnetic interference.

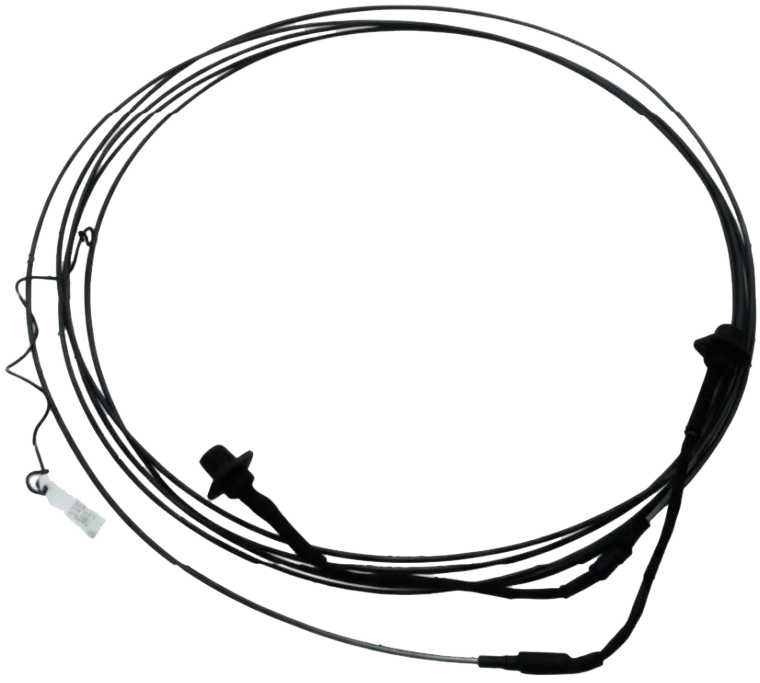
It operates reliably at temperatures up to 870°C (1598°F) and requires no pre-installation maintenance or calibration.

Technical Specifications

Parameter	Description
Connector Configuration	A: Thermocouple 1B: Thermocouple 2C: Cable Shield
Thermocouple Type	Type K
Self-Healing Capability	Restores to normal operation after exposure to 870°C
Chemical Resistance	High resistance to corrosive and chemical agents
Grounding Capability	Integrated ground continuity
Detection Continuity	Detects heat even when physically segmented
Operating / Storage Temperature	-55°C to +800°C (-67°F to +1472°F)
Flexibility	High mechanical flexibility
Cable Diameter	6 mm
Sheath Material	Inconel Alloy
Measurement Type	Type K thermocouple
Standards Compliance	MIL-STD-810G, MIL-STD-461G, MIL-STD-1275E

Operational Advantages

• Extended service life — maintains integrity over vehicle lifetime without replacement
• High sensitivity to slow-developing fires and localized temperature rises
• No calibration or maintenance required prior to field deployment
• Superior EMI/EMC protection ensuring stable signal output
• Designed for military-grade reliability in combat vehicle and aerospace applications



Military-grade Summary

This Linear Heat Sensor represents a mission-critical thermal detection solution, combining Inconel-based durability, self-healing capability, and EMC-hardened electronics to meet the most demanding operational and environmental standards.

It is fully qualified under MIL-STD testing regimes, suitable for armored vehicles, aircraft, naval platforms, and other defense applications requiring fail-safe temperature monitoring.

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