Temposonics
AN AMPHENOL COMPANY

Use Case Spotlight

Military & Defense

Magnetostrictive Linear Position Sensors for Reliable Motion Control

For mission-critical position sensing – where accuracy, reliability, and longevity are a must.

– TRUST THE EXPERTS –

WHY POSITION MEASUREMENT?

Whether on land, sea, or in the air, accurate position feedback is essential for mission success, operational safety, and long-term system reliability. Temposonics® position sensors are engineered to meet the highest standards, delivering uncompromising accuracy and reliability over the years in extreme and safety-critical environmental conditions.

WHY WE PERFORM WHERE OTHERS FAIL

MAGNETOSTRICTION: PROVEN & ROBUST TECHNOLOGY

- **Absolute, non-contact position sensing**
  - No recalibration required
  - No mechanical wear
  - Maintenance-free operation
- **Mission-critical precision**
  - Reliable positioning in real-time, even under dynamic conditions
  - Picosecond-accurate measurement enabled by a proprietary waveguide that we design, manufacture, and control

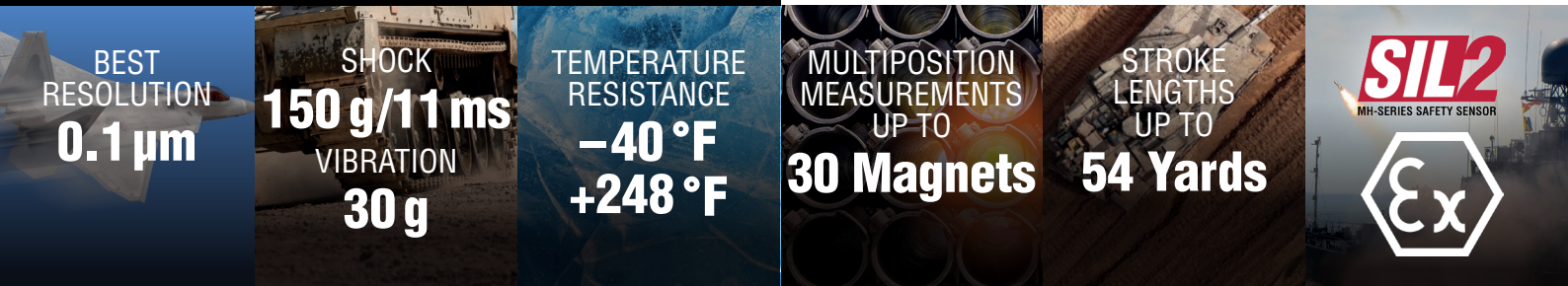
RUGGED & INNOVATIVE DESIGNS

- **Rugged**
  Resistant to shock, vibration, dust, humidity, temperature extremes, and corrosive environments
- **Long-term reliability**
  Proven performance over many years of continuous operation
- **Wide range of form factors and connector assembly, interfaces and certifications** for seamless integration in your systems (in-cylinder or external mounted), easy serviceability and maximum flexibility

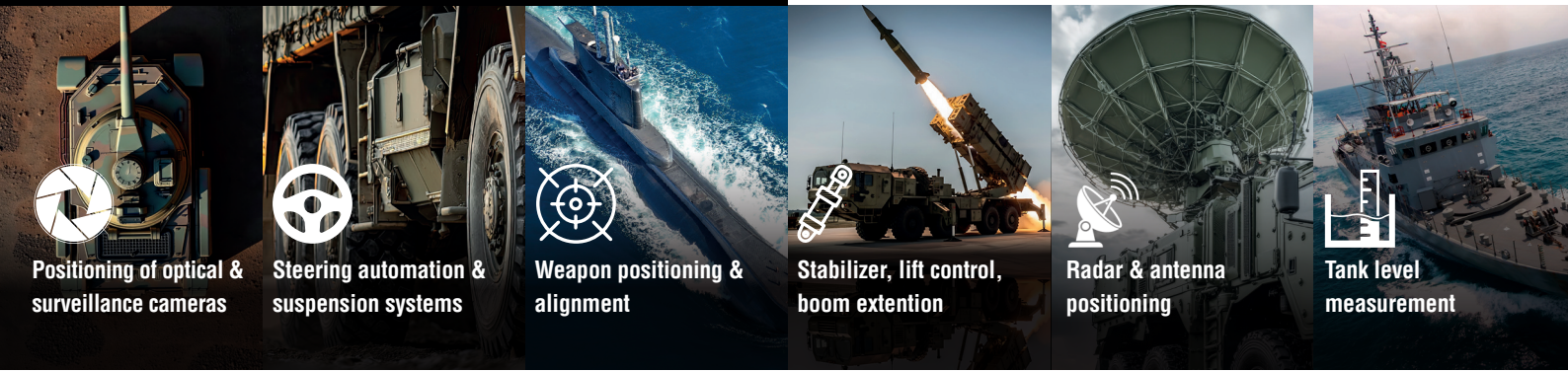
CUSTOMIZED SOLUTIONS

- **Customer-specific** design and development tailored to application requirements

IN PRACTICE...



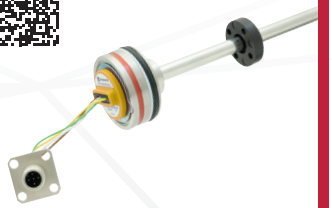
WE UNDERSTAND YOUR APPLICATION …



AND DELIVER THE OPTIMAL SENSOR SOLUTION WITH EXPERT SUPPORT:

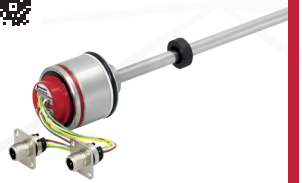
R-Series V FLEXIBLE

- High performance sensor
- Flexible rod with 3.9 in. bend radius
- Stroke length: 6…787 in.



MH-Series SAFETY

- Suitable for Safety Integrity Level 2 (SIL-2) applications & category 2 PLd
- IEC 61508, ISO 13849-1/13849-2
- Stroke length: 50…5000 mm



MH-Series REDUNDANT

- With two redundant sensor elements in a single pressure resistant rod
- Stroke length: 50…2500 mm

MH-Series XTERNAL MOUNT

- Replaceable electronic module automatically pairs with the existing sensing element inside the cylinder
- Stroke length: 50…2500 mm

A TRUSTED PARTNER

Decades of leadership in magnetostrictive position sensing

Deep, hands-on application expertise across various industries

Highest quality through in-house R&D and production

Commitment to quality, consistency, and compliance

Thinking globally. Acting locally.
As part of the Amphenol Group, we operate state-of-the-art production facilities in Germany (Lüdenscheid & Dortmund) and the USA (Cary, NC), supported by a global network of direct sales offices and authorized distributors.

50 YEARS 1975 - 2025

temposonics.com

Document Part Number:
552249 Revision B (EN US) 04/2026

UNITED STATES
Temposonics, LLC
3001 Sheldon Drive,
Cary, NC, 27513
Phone: +1 919 677-0100
E-Mail: info.us@temposonics.com

GERMANY
Temposonics GmbH & Co. KG
Auf dem Schüffel 9
58513 Lüdenscheid
Phone: +49 2351 9587-0
E-Mail: info.de@temposonics.com

© 2026 Temposonics, LLC - alle Rechte vorbehalten. Temposonics, LLC und Temposonics GmbH & Co. KG sind Tochtergesellschaften der Amphenol Corporation. Mit Ausnahme von Marken Dritter, die in diesem Dokument genannt werden, können die verwendeten Firmennamen und Produktnamen eingetragene Marken oder nicht eingetragene Marken von Temposonics, LLC oder Temposonics GmbH & Co. KG sein. Detaillierte Informationen über die Markenrechte finden Sie unter **www.temposonics.com/de/markeneigentum**.