

Application Note

Mobile Lifting Platforms Magnetostrictive Linear Position Sensors

SEGMENT: Mobile Hydraulics
BRANCH: Construction & Handling Machines



WHERE ARE POSITION SENSORS INSTALLED?

- ① Inside tilt cylinder for bucket control
- ② Inside boom lift cylinders for controlled extensions
- ③ and tilt stability
- ④ Inside horizontal outriggers for fast and safe deployment

TEMPOSONICS SOLUTION

Temposonics linear position sensors allow on-board intelligent controls to improve accuracy through automated monitoring and avoid dangerous situations all while improving productivity, safety and ergonomics. The MH-Series is specifically designed for full sealing and embedding in hydraulic cylinders. The proprietary M12 connector system enables IP69K.

WHY POSITION MEASUREMENT?

Mobile Elevating Work Platforms (MEWP) in their various versions (aerial work platforms, telehandlers, mobile cranes, fire-fighting vehicles, etc.) are increasingly being used as safe and more efficient alternatives to ladders and scaffolding. Reliable position measurement enables controlled and efficient movements.

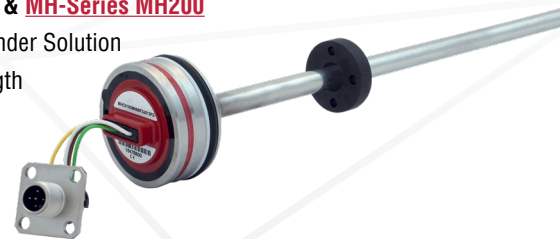
KEY REQUIREMENTS

- Absolute and reliable position feedback on extended stroke length
- Highest robustness against shock and vibrations
- Increased safety and stability

RECOMMENDED SENSOR MODELS

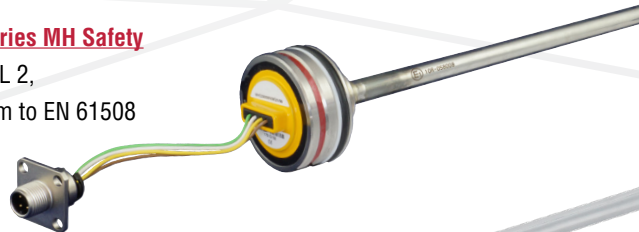
MH-Series MH & MH-Series MH200

Embedded Cylinder Solution
with stroke length
up to 5 m



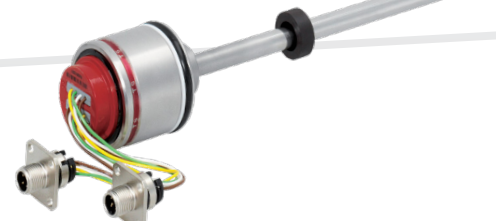
MH-Series MH Safety

with SIL 2,
conform to EN 61508

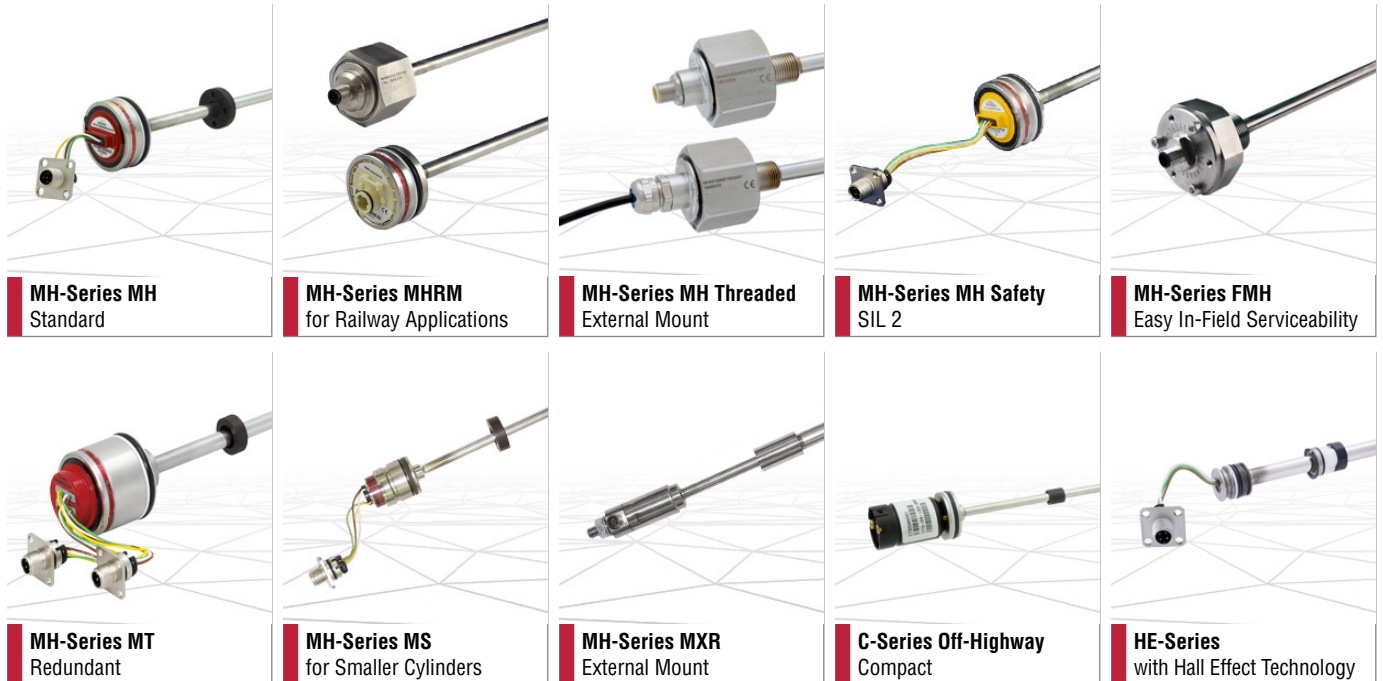


MH-Series MT

Redundant, with
2 independent
sensing elements



MEETING THE CHALLENGES OF MOBILE HYDRAULIC APPLICATIONS



TOTAL CUSTOMER SATISFACTION

Our commitment at Temposonics is to consistently deliver quality products on time to meet your schedules and provide first-class service. Trust in our continuous product development of high-performance position sensors and rely on our highly qualified personnel. At Temposonics, we live by the promise of unparalleled service that enables us to take all available means to exceed your expectations. Our goal is to support you optimizing your productivity and we love the idea to make you save your valuable time!

If we can be of further assistance please let us know -

Your Temposonics Team



Document

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