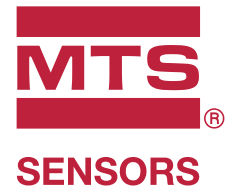


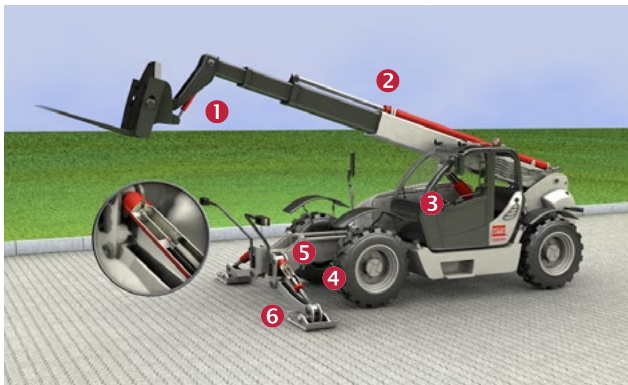
# Temposonics®

Magnetostrictive Linear Position Sensors



## Telehandlers Application Note

**SEGMENT:** Mobile Hydraulics  
**BRANCH:** Construction &  
Material Handling Machines



### WHERE ARE POSITION SENSORS INSTALLED?

- 1 Inside the tilt cylinder
- 2 Inside the boom extension cylinder
- 3 Inside the lift cylinder for optimized load management (tilt control and parallel movements)
- 4 Inside the steering cylinder for controlled moves
- 5 Front axle suspension
- 6 Inside the horizontal outriggers for more stability and fast adjustments

### MTS SENSORS 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?

Telehandlers are being used as safe and more efficient alternatives to ladders and scaffolding in modern farms. Reliable position measurement enables controlled and fast movements.

### KEY REQUIREMENTS

- Absolute and reliable position feedback on extended stroke length
- Highest robustness against shock and vibrations
- Increased safety and comfort for the operator

### RECOMMENDED SENSOR MODELS

#### MH-Series MH & MH-Series MH200

Embedded Cylinder Solution  
with stroke length  
up to 5 m



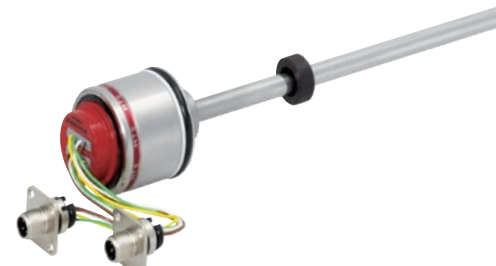
#### MH-Series MH Safety

with SIL 2,  
conform to EN 61508

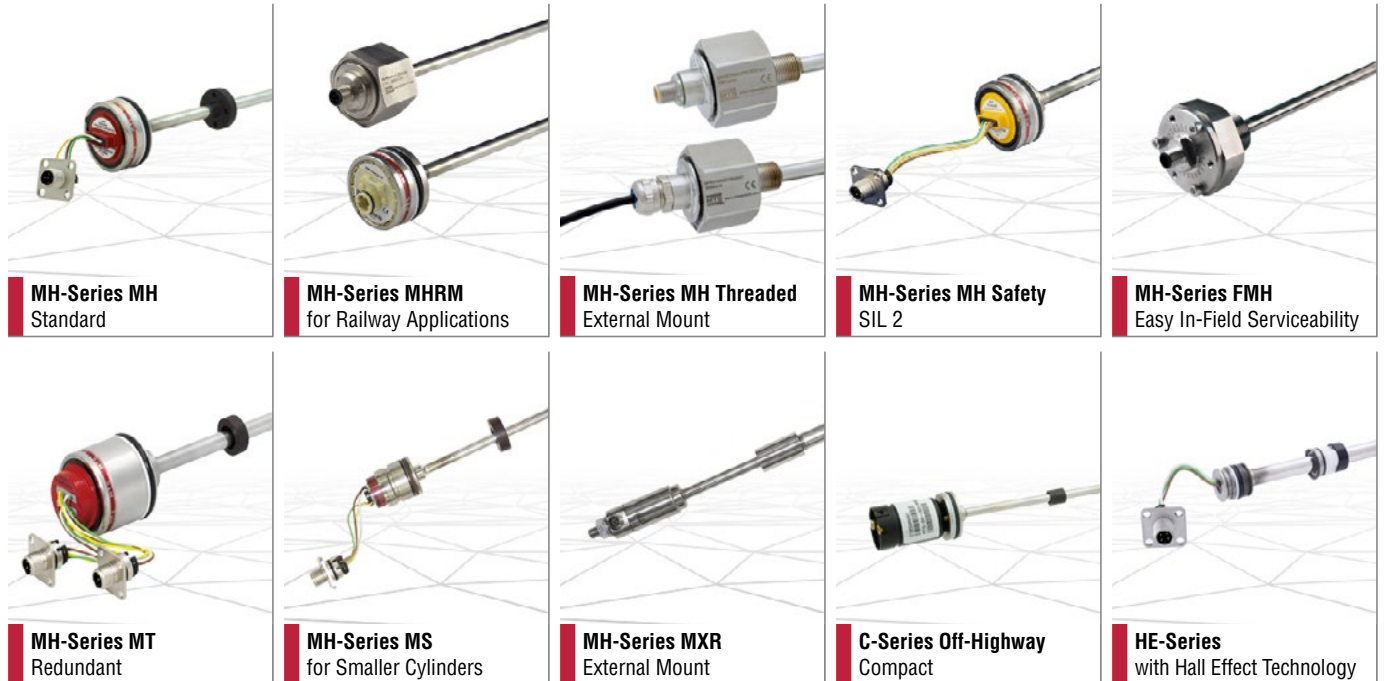


#### MH-Series MT

Redundant, with  
2 independent  
sensing elements



## MEETING THE CHALLENGES OF MOBILE HYDRAULIC APPLICATIONS



## TOTAL CUSTOMER SATISFACTION

Our commitment at MTS Sensors 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 MTS Sensors, 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 MTS Sensors Team



### Document

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