

# Application Note

## Position Feedback on Auxiliary Mobile Equipment Magnetostrictive Linear Position Sensors

**SEGMENT:** Mobile Hydraulics  
**BRANCH:** Agricultural Machines



### WHY POSITION MEASUREMENT?

Modern agricultural attachments are increasingly sophisticated and significantly optimize working processes in today's farming activities. Key elements of this technological development are measuring systems. Reliable position measurement enables controlled and efficient movements of cultivation machines and their equipments - like seeders, ploughs, rotary swathers, irrigation systems, pump units, weeding machines, balers, etc.

### KEY REQUIREMENTS

- Absolute and reliable position feedback for precise movements and stability
- Highest robustness against shock and vibrations
- Increased safety and comfort for the operator
- Environment-friendly solution: controlled spread of pesticides

### WHERE ARE POSITION SENSORS INSTALLED?

- 1 On the steering for precise machine positioning
- 2 On the attachment for depth control
- 3 On the attachment for angle control
- 4 In the tank for level monitoring
- 5 On the attachment for angle adjustment and height control

### TEMPOSONICS SOLUTION

Temposonics linear position sensors allow on-board intelligent controls to improve reliability 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.

The Temposonics® C-Series is the smallest magnetostrictive sensor series on the market. Designed for battery powered off-highway applications it is ideal for measuring small cylinder strokes.

### RECOMMENDED SENSOR MODELS

**MH-Series MH**  
Embedded Cylinder Solution



**MH-Series MH Threaded**  
External Mount



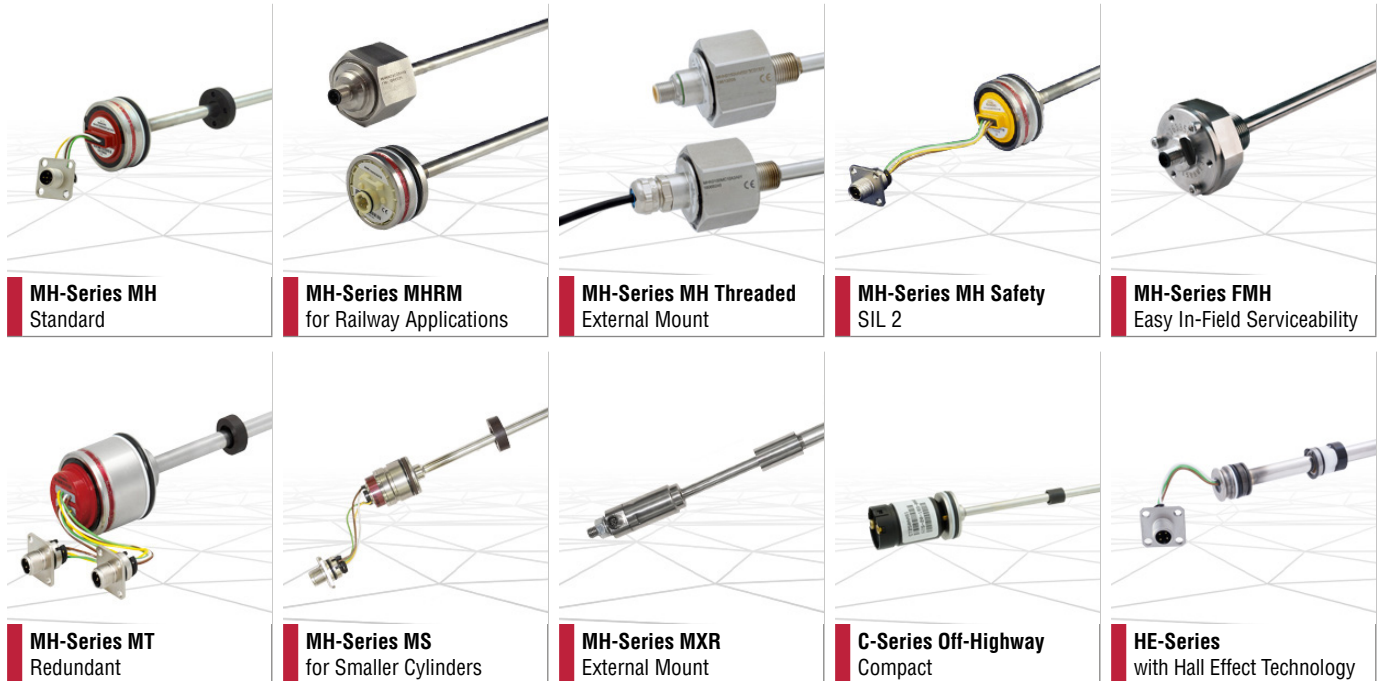
**C-Series Off-Highway**  
Compact



**HE-Series**  
with Hall Effekt Technology



## 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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