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

TEMPSONICS 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

MH-Series MH
Standard

MH-Series MHRM
for Railway Applications

MH-Series MH Threaded
External Mount

MH-Series MH Safety
SIL 2

MH-Series FMH
Easy In-Field Serviceability

MH-Series MT
Redundant

MH-Series MS
for Smaller Cylinders

MH-Series MXR
External Mount

C-Series Off-Highway
Compact

HE-Series
with Hall Effect Technology

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