

Product Brief

MH-Series – MHRM Analog

Magnetostrictive Linear Position Sensors

- ▶ For embedded or externally threaded installation
- ▶ Sensor rod with \varnothing 7 mm or \varnothing 10 mm
- ▶ Resolution: ± 0.1 mm
- ▶ Compliant with EN 50121-3-2



The MHRM sensor extends the rugged design of the Temposonics® MH-Series sensors to railway applications. With two mounting styles, the responsive magnetostrictive linear position sensors can be integrated into most installations. The inherent absolute capabilities ensure that the MHRM sensor is always ready.

The new MHRM model meets the requirements for shock and vibration according to EN 61373 and IEC 60068-2-64 and are compliant with EN 50121-3-2 and EN 61000-6-2, -3.

TYPICAL APPLICATIONS

Temposonics® MHRM sensors are used for the tilt and suspension control of bogies or pantograph displacement position control on high speed trains. MHRM sensors can also be used for mains powered applications such as cranes and lifts.



Features

Measured value	Position
Output	Analog (Voltage / Current)
Resolution	Typ. ± 0.1 mm
Stroke length	50...2500 mm
Rod	7 mm / 10 mm
EMC	EN 50121-3-2 ISO 14982 EN 13309 ISO 16750-2 EN 61000-6-2 EN 61000-6-3 ISO 11452-2/-4 (RF immunity 200 V/m)
Connection type	M12 connector or Interconnection plug (IP69K with mated M12 connector)
Operating voltage	12 / 24 VDC (8...32 VDC)

Designs



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