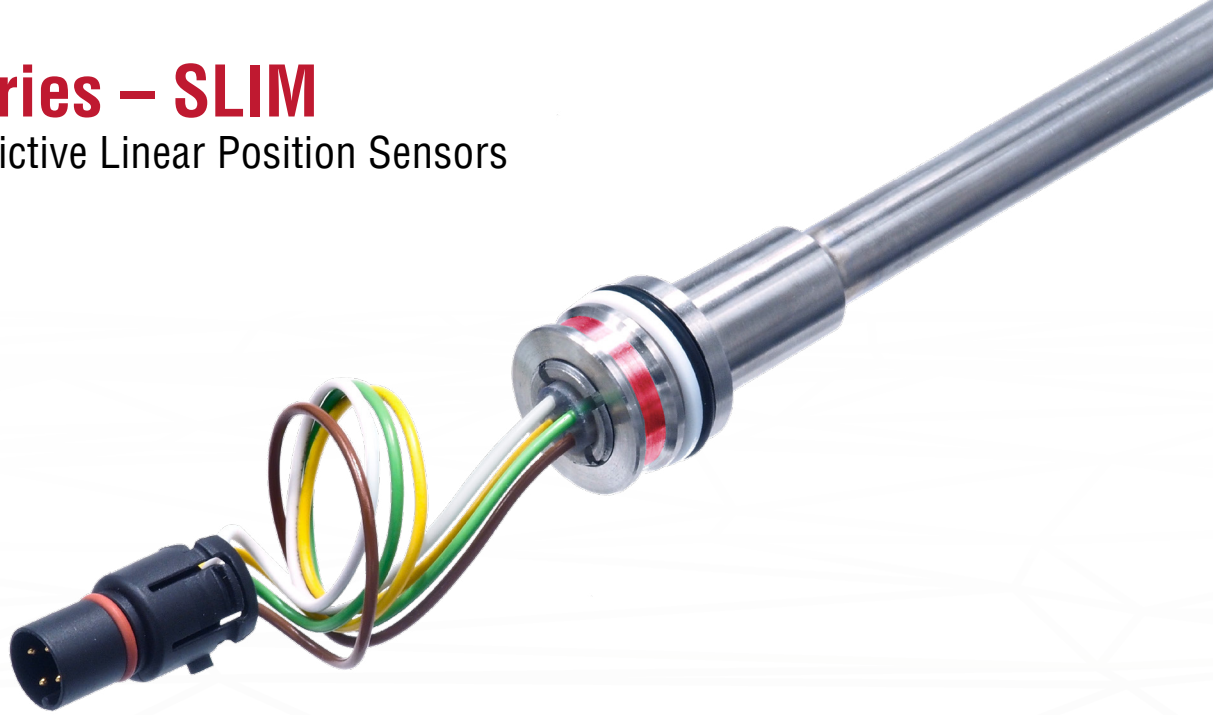


Product Brief

MH-Series – SLIM

Magnetostrictive Linear Position Sensors



Overview

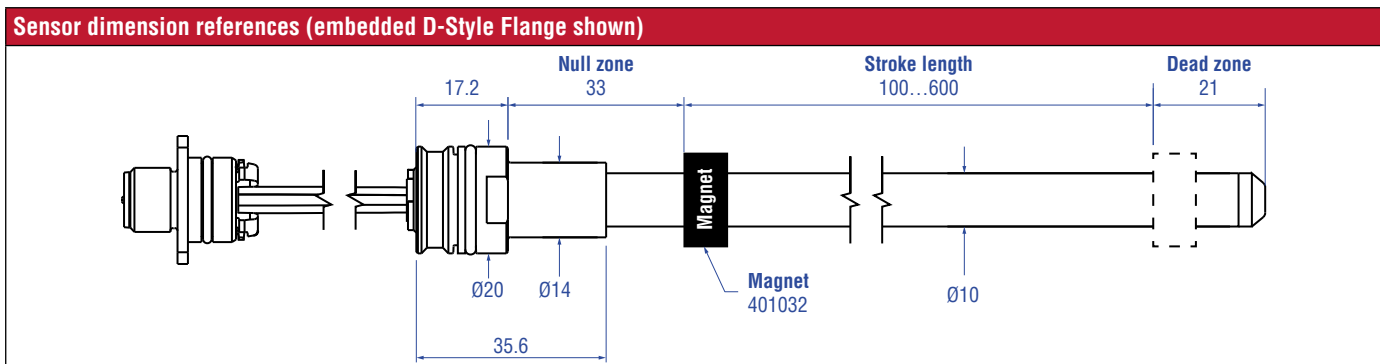
- ▶ Based on magnetostrictive technology
- ▶ Stroke lengths up to 600 mm
- ▶ Simplified design
- ▶ Embedded and external threaded options
- ▶ Uses standard MH magnets
- ▶ Analog and CANbus output available

Typical Applications

- ▶ Agricultural equipment
- ▶ Small construction machines
- ▶ Short stroke cylinders where minimal pin-to-pin distance is a priority



Features	
Measured Value	Position, Velocity (CANbus only)
Output Options	Voltage, Current, CANopen, J1939
Stroke Length	100 mm to 600 mm
Resolution	0.1 mm
Linearity	±0.4 mm
Shock	100 g (11 ms) single shock per axis, IEC 60068-2-27 50 g (11 ms) at 1000 shocks per axis, IEC 60068-2-29
Vibration	Operational sine vibration test IEC 60068-2-6: 10 g (5...2000 Hz) Survival random vibration test IEC 60068-2-64: 20 g RMS (20...2000 Hz) 12 h per axis
EMC	Compliant with: ISO 13766-1:2018 Earth-moving and building construction machinery EN ISO 14982:2009 Agricultural and Forestry Machinery EN 13309:2010 Construction machinery ISO 16750-2:2012 Road vehicles
EMI	200 V/m (ISO 11452-2: 2019 200...2000 MHz) 200 mA (ISO 11452-4: 2011 20...200 MHz)
Operating Temperature	-40...+105 °C
Operating Voltage	9...32 VDC
Connection type	M12 connector (IP69K with mating M12 connector)



Document Part Number:

552171 Revision A (EN) 11/2023

temposonics.com

UNITED STATES

Temposonics, LLC
Phone: +1 919 677-0100
E-Mail: info.us@temposonics.com

GERMANY

Temposonics GmbH & Co. KG
Phone: +49 2351 9587-0
E-Mail: info.de@temposonics.com

ITALY

Branch Office
Phone: +39 030 988 3819
E-Mail: info.it@temposonics.com

FRANCE

Branch Office
Phone: +33 614 060 728
E-Mail: info.fr@temposonics.com

UK

Branch Office
Phone: +44 79 21 83 05 86
E-Mail: info.uk@temposonics.com

SCANDINAVIA

Branch Office
Phone: +46 70 29 91 281
E-mail: info.sca@temposonics.com

CHINA

Branch Office
Phone: +86 21 3405 7850
E-Mail: info.cn@temposonics.com

JAPAN

Branch Office
Phone: +81 3 6416 1063
E-Mail: info.jp@temposonics.com