

### R-Series EtherNet/IP™ Product Brief

- ▶ Linear, Absolute Measurement
- ▶ Multiple Mounting Options
- ▶ Position & Velocity Up to 20 Magnets
- ▶ Superior Accuracy, Resolution Down to 1 µm
- ▶ No Recalibration or Maintenance Required



**EtherNet/IP™**  
ODVA

The Temposonics® R-Series features the highest performance, accuracy and reliability in magnetostrictive linear-position sensors designed for advanced motion control implementations.

With a variety of housing styles and electrical interfaces, the R-Series can be integrated into a wide range of applications. They have a modular construction and are extremely robust. Their double-shielded arrangement assures the best immunity against EMI.

Available styles:

- Rod (RH)
- Profile (RP)
- Detached (RD4)
- Flexible rod (RF)

#### **EtherNet/IP™**

EtherNet/IP™ systems require only a single point of connection for both configuration and control, because EtherNet/IP™ supports both I/O (or implicit) messages and explicit messages. Implicit messages typically contain time-critical control data while explicit messages typically contain both protocol information and instructions for service performance. As a producer-consumer network that supports multiple communication hierarchies and message prioritization, EtherNet/IP™ provides more efficient use of bandwidth than a device network based on a source-destination model.

#### **TYPICAL APPLICATIONS**

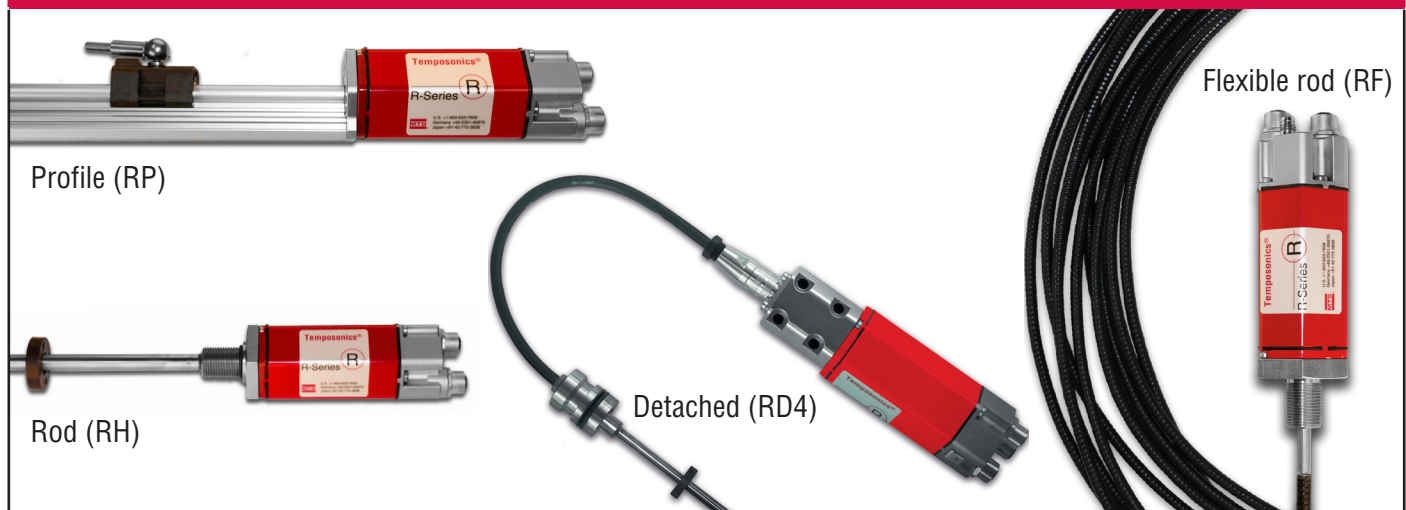
Factory automation, fluid power, plastic injection, blow molding, material handling and packaging.

## Features

Measured value	Position and Velocity for up to 20 simultaneous target magnets
Resolution	1...1000 µm selectable
Cycle time	1.0 ms up to 2000 mm, 2.0 ms up to 4800 mm, 3.0 ms up to 7600 mm, 4.0 ms up to 10,060 mm stroke length
Linearity	RH/RP: < ± 0.01% full stroke RF/RD4: < ± 0.02% full stroke
Shock test	100 g (single shock), IEC standard 60068-2-27
Stroke length	RP/RD4: 25... 5080 mm (1...200 in.) RH: 25... 7620 mm (1...300 in.) RF: 150...10060 mm (6...396 in.)*

\* / Longer strokes are available. Contact applications engineering for details.

## Housing style reference



## LOCATIONS

**USA**  
**MTS Systems Corporation**  
**Sensors Division**  
 3001 Sheldon Drive  
 Cary, N.C. 27513, USA  
 Tel. +1 919 677-0100  
 Fax +1 919 677-0200  
 info.us@mtssensors.com  
 www.mtssensors.com

**JAPAN**  
**MTS Sensors Technology Corp.**  
 737 Aihara-machi,  
 Machida-shi,  
 Tokyo 194-0211, Japan  
 Tel. +81 42 775-3838  
 Fax +81 42 775-5512  
 info.jp@mtssensors.com  
 www.mtssensors.com

**ITALY**  
**MTS Systems Srl.Sensor**  
**Division**  
 Via Diaz,4  
 25050 Provaglio d'Iseo (BS),  
 Italy  
 Tel. +39 030 988 3819  
 Fax +39 030 982 3359  
 info.it@mtssensors.com  
 www.mtssensors.com

**GERMANY**  
**MTS Sensor Technologie**  
**GmbH & Co. KG**  
 Auf dem Schüffel 9  
 58513 Lüdenscheid, Germany  
 Tel. +49 2351 9587-0  
 Fax +49 2351 56491  
 info.de@mtssensors.com  
 www.mtssensors.com

**CHINA**  
**MTS Sensors**  
 Room 504, Huajing Commercial Center,  
 No. 188, North Qinzhou Road  
 200233 Shanghai, China  
 Tel. +86 21 6485 5800  
 Fax +86 21 6495 6329  
 info.cn@mtssensors.com  
 www.mtssensors.com

**FRANCE**  
**MTS Systems SAS**  
 Zone EUROPARC Bâtiment EXA 16  
 16/18, rue Eugène Dupuis  
 94046 Creteil, France  
 Tel. +33 1 58 4390-28  
 Fax +33 1 58 4390-03  
 info.fr@mtssensors.com  
 www.mtssensors.com

## LEGAL NOTICES

MTS, Temposonics and Level Plus are registered trademarks of MTS Systems Corporation in the United States; MTS SENSORS and the MTS SENSORS logo are trademarks of MTS Systems Corporation within the United States. These trademarks may be protected in other countries. All other trademarks are the property of their respective owners. Copyright © 2015 MTS Systems Corporation. No license of any intellectual property rights is granted. MTS reserves the right to change the information within this document, change product designs, or withdraw products from availability for purchase without notice. Typographic and graphics errors or omissions are unintentional and subject to correction. Visit [www.mtssensors.com](http://www.mtssensors.com) for the latest product information. Product change notification alerts are available through the MTS Product Change Management System; register at [www.mtssensors.com/PCMS](http://www.mtssensors.com/PCMS).

**ISO 9001**  
 CERTIFIED

**EtherNet/IP™**  
 ODVA

**ODVA**  
 CONFORMANT

MTS has a dedicated expert support team who are available to assist with your specific application needs.  
**1-800-633-7609 / [sensorsinfo@mts.com](mailto:sensorsinfo@mts.com)**

**Document Part Number:**  
 551809 Revision A (EN) 11/2015