R-SERIES V
The new generation (RH5, RP5)

R-Series V is the successor to our current fourth generation. The new sensors have higher resistance to vibration and high temperatures, are ready for Industry 4.0 and fit perfectly into existing applications.

The new Industry 4.0 features for all outputs offer users unique advantages, as they provide additional information about the process in addition to the pure process data (position/speed). Status and statistical data are recorded and processed during operation and can be used to better understand the processes within the application.

In combination with the increased performance and improved robustness, the user is offered the certainty that existing applications work even more reliably and that future requirements are already being met.

### Output (resolution)

<table>
<thead>
<tr>
<th></th>
<th>RH5</th>
<th>RP5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current</td>
<td>16 bit</td>
<td>16 bit</td>
</tr>
<tr>
<td>Voltage</td>
<td>16 bit</td>
<td>16 bit</td>
</tr>
<tr>
<td>SSI</td>
<td>0.1 µm</td>
<td>0.1 µm</td>
</tr>
<tr>
<td>EtherCAT®</td>
<td>0.5 µm</td>
<td>0.5 µm</td>
</tr>
<tr>
<td>EtherNet/IP™</td>
<td>1 µm</td>
<td>1 µm</td>
</tr>
<tr>
<td>POWERLINK</td>
<td>0.5 µm</td>
<td>0.5 µm</td>
</tr>
<tr>
<td>PROFINET</td>
<td>0.5 µm</td>
<td>0.5 µm</td>
</tr>
</tbody>
</table>

### Operating conditions

- **Temperature**: −40...+85 °C (−40...+185 °F)
- **Shock test**: 150 g / 11 ms, IEC standard 60068-2-27
- **Vibration test**: 30 g / 10...2000 Hz, IEC standard 60068-2-6 (excluding resonant frequencies)

### Design

- **Stroke length**
  - RH5: 25...7620 mm (1...300 in.)
  - RP5: 25...6350 mm (1...250 in.)

### Accuracy

- **Linearity deviation**: < 0.01 % F.S. (minimum ≤ ±50 µm)

### Electrical connection

- **Operating voltage**: +12...30 VDC ±20 % (9.6...36 VDC)

TempoLink Smart Assistant for R-Series V

The TempoLink smart assistant supports the integration of the sensor into the application and the transfer of additional information to the user. With the assistant, the user can call up data such as the current sensor status, the internal sensor temperature, the number of operating hours and the distance travelled by the position magnets. An evaluation of these values can help in the creation of predictive maintenance plans and thus lead to an optimization of production.

The connection and communication between the Temposonics® R-Series V sensor and the TempoLink smart assistant is via the power supply. The assistant can transfer the various sensor parameters wirelessly or via the USB port while the sensor continues to operate.

Because the TempoLink smart assistant provides its own WiFi access point, WiFi-enabled devices such as smartphones, tablets or laptops can access it very easily. No software installation or app is required, nor is access to a company network.

More information available at: www.mtssensors.com

RH5 Sensor
rod-style designed for use in cylinders

RP5 Sensor
profile-style