

Data Sheet

R-Series V RFV POWERLINK

Magnetostrictive Linear Position Sensors

- Flexible sensor rod
- Stroke length up to 20 m
- Field adjustments and diagnostics using the new TempoLink® smart assistant



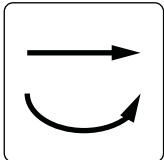
V
THE NEW GENERATION

MEASURING TECHNOLOGY

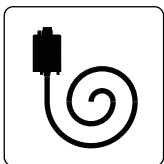
The absolute, linear position sensors provided by Temposonics rely on the company's proprietary magnetostrictive technology, which can determine position with a high level of precision and robustness. Each Temposonics position sensor consists of a ferromagnetic waveguide, a position magnet, a strain pulse converter and a supporting electronics. The magnet, connected to the object in motion in the application, generates a magnetic field at its location on the waveguide. A short current pulse is applied to the waveguide. This creates a momentary radial magnetic field and torsional strain on the waveguide. The momentary interaction of the magnetic fields releases a torsional strain pulse that propagates the length of the waveguide. When the ultrasonic wave reaches the beginning of the waveguide it is converted into an electrical signal. Since the speed of the ultrasonic wave in the waveguide is precisely known, the time required to receive the return signal can be converted into a linear position measurement with both high accuracy and repeatability.

R-SERIES V RFV POWERLINK

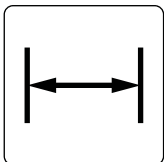
The Temposonics® R-Series V brings very powerful sensor performance to meet the many demands of your application. The RFV sensor is the R-Series V with flexible rod. The main advantages of the flexible rod are:



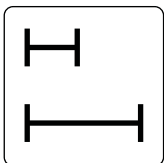
Straight and curved line
The flexible measuring rod enables position measurement on straight and also curved line.



Compact for transport and storage
For transport and storage, the RFV sensor can be coiled up. This saves costs and space.



Installation with little space
Due to the bendable rod, the RFV sensor can be installed even if only little space is available.



Large stroke length range
The sensor is available with stroke lengths from 150 mm to 20,000 mm and thus can be used in both short and long distance applications.

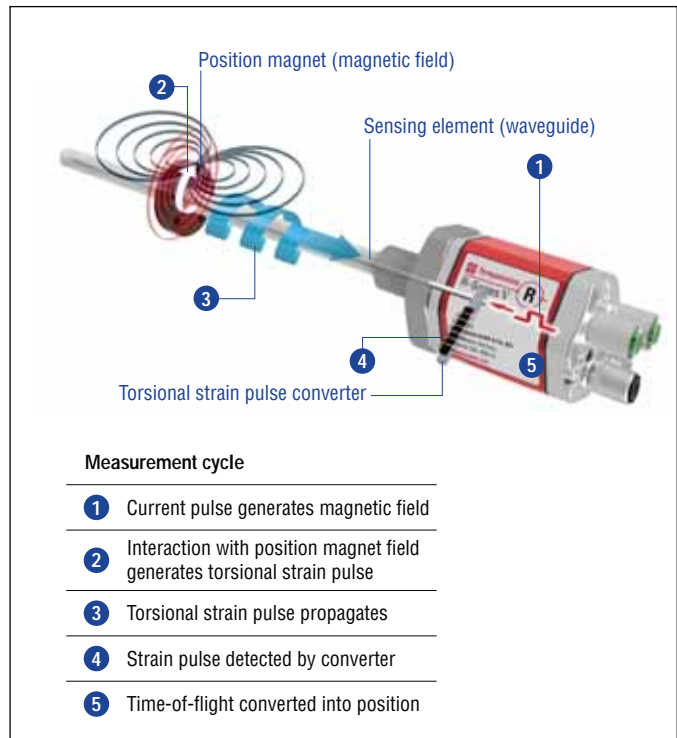


Fig. 1: Time-of-flight based magnetostrictive position sensing principle

In addition the R-Series V POWERLINK scores with the following features:



30 positions simultaneously
The R-Series V POWERLINK can detect and report the position and velocity of up to 30 magnets simultaneously.



R-Series V POWERLINK
In addition to the measured position value via the POWERLINK protocol further data about the current sensor status, such as the total distance travelled, the internal temperature and the total operating hours, can be displayed for diagnostic purposes.

All settings under control with the sensor assistants for the R-Series V
The TempoLink® and the TempoGate® smart assistants support you in setup and diagnostics of the R-Series V. For more information of these assistants please see the data sheets:

- TempoLink® smart assistant
([Document part number: 552070](#))
- TempoGate® smart assistant
([Document part number: 552110](#))



TECHNICAL DATA

| Output | | | | | | |
|----------------------------------|---|---------------------|-----------|-----------|-------------|-------------|
| Interface | Ethernet POWERLINK | | | | | |
| Data protocol | POWERLINK V2 | | | | | |
| Data transmission rate | 100 MBit/s (maximum) | | | | | |
| Measured value | Position, velocity/option: Simultaneous multi-position and multi-velocity measurements up to 30 magnets | | | | | |
| Measurement parameters | | | | | | |
| Resolution: Position | 0.5...100 µm (selectable) | | | | | |
| Cycle time | Stroke length | ≤ 715 mm | ≤ 2000 mm | ≤ 4675 mm | ≤ 10,000 mm | ≤ 20,000 mm |
| | Cycle time | 500 µs ¹ | 1000 µs | 2000 µs | 4000 µs | 8000 µs |
| Linearity deviation ² | < ±0.02 % F.S. (minimum ±100 µm) | | | | | |
| Repeatability | < ±0.001 % F.S. (minimum ±2.5 µm) typical | | | | | |
| Hysteresis | < 4 µm typical | | | | | |
| Temperature coefficient | < 15 ppm/K typical | | | | | |
| Operating conditions | | | | | | |
| Operating temperature | -40...+85 °C (-40...+185 °F) | | | | | |
| Humidity | 90 % relative humidity, no condensation | | | | | |
| Ingress protection | IP30 (IP65 rating only for professional mounted guide pipe and if mating connectors are correctly fitted) | | | | | |
| Shock test | 100 g/6 ms, IEC standard 60068-2-27 | | | | | |
| Vibration test | 5 g/10...2000 Hz, IEC standard 60068-2-6 (excluding resonant frequencies) | | | | | |
| EMC test | Electromagnetic emission according to EN 61000-6-3 | | | | | |
| | Electromagnetic immunity according to EN 61000-6-2 The RFV sensors fulfill the requirements of the EMC directives 2014/30/EU, UKSI 2016 No. 1091 and TR CU 020/2011 under the condition of an EMC-compliant installation. ³ | | | | | |
| Magnet movement velocity | Any | | | | | |
| Design/Material | | | | | | |
| Sensor electronics housing | Aluminum (painted), zinc die cast | | | | | |
| Sensor flange | Stainless steel 1.4305 (AISI 303) | | | | | |
| Sensor rod | Stainless steel conduct with PTFE coating | | | | | |
| RoHS compliance | The used materials are compliant with the requirements of EU Directive 2011/65/EU and EU Regulation 2015/863 as well as UKSI 2022 No. 622 | | | | | |
| Stroke length | 150...20,000 mm (6...787 in.) | | | | | |
| Mechanical mounting | | | | | | |
| Mounting position | Any | | | | | |
| Mounting instruction | Please consult the technical drawings on page 4 and in the operation manual (document number: 552010) | | | | | |
| Electrical connection | | | | | | |
| Connection type | 2 × M12 female connectors (D-coded), 1 × M8 male connector or 2 × M12 female connectors (D-coded), 1 × M12 male connector (A-coded) | | | | | |
| Operating voltage | +12...30 VDC ±20 % (9.6...36 VDC) | | | | | |
| Power consumption | Less than 4 W typical | | | | | |
| Dielectric strength | 500 VDC (DC ground to machine ground) | | | | | |
| Polarity protection | Up to -36 VDC | | | | | |
| Overvoltage protection | Up to 36 VDC | | | | | |

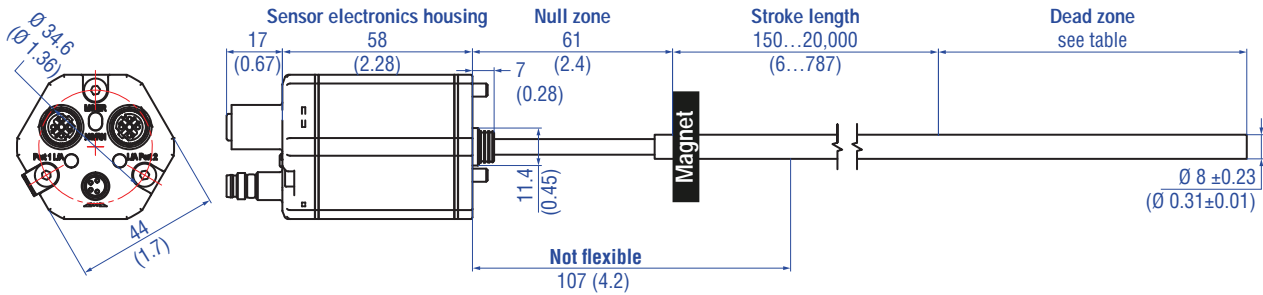
1/ Minimum cycle time for multi-position measurements (number of magnets ≥ 2): 400 µs

2/ With position magnet # 251 416-2

3/ The flexible sensor element must be mounted in an appropriately shielded environment.

TECHNICAL DRAWING

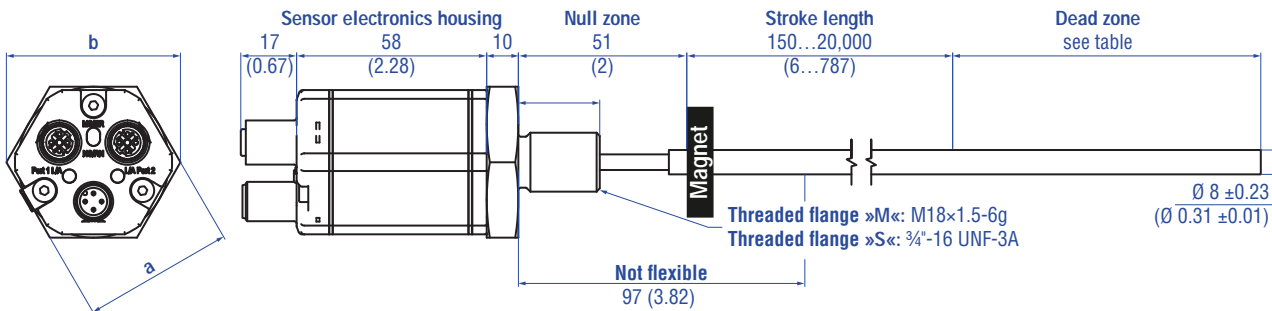
RFV-B – RFV base unit, example: Connection type D56 (connector outlet)



| Stroke length | Tolerance of total length | Dead zone |
|------------------------------|-------------------------------------|-------------------|
| Up to 7620 mm (300.00 in.) | +8 mm (0.31 in.)/-5 mm (0.20 in.) | 94 mm (3.70 in.) |
| Up to 10,000 mm (393.70 in.) | +15 mm (0.59 in.)/-15 mm (0.59 in.) | 100 mm (3.94 in.) |
| Up to 15,000 mm (590.55 in.) | +15 mm (0.59 in.)/-30 mm (1.18 in.) | 120 mm (4.72 in.) |
| Up to 20,000 mm (787.00 in.) | +15 mm (0.59 in.)/-45 mm (1.77 in.) | 140 mm (5.51 in.) |

Note: Tolerance of total length has no influence on the stroke length.

RFV-M/S – RFV with threaded flange M18×1.5-6g or 3/4"-16 UNF-3A, example: Connection type D58 (connector outlet)



| Threaded flange | a | b |
|-----------------|-----------------|-------------|
| »M« | A/F 46 (1.81) | 53 (2.09) |
| »S« | A/F 44.5 (1.75) | 51.3 (2.02) |

| Stroke length | Tolerance of total length | Dead zone |
|------------------------------|-------------------------------------|-------------------|
| Up to 7620 mm (300.00 in.) | +8 mm (0.31 in.)/-5 mm (0.20 in.) | 94 mm (3.70 in.) |
| Up to 10,000 mm (393.70 in.) | +15 mm (0.59 in.)/-15 mm (0.59 in.) | 100 mm (3.94 in.) |
| Up to 15,000 mm (590.55 in.) | +15 mm (0.59 in.)/-30 mm (1.18 in.) | 120 mm (4.72 in.) |
| Up to 20,000 mm (787.00 in.) | +15 mm (0.59 in.)/-45 mm (1.77 in.) | 140 mm (5.51 in.) |

Note: Tolerance of total length has no influence on the stroke length.

Controlling design dimensions are in millimeters and measurements in () are in inches

Fig. 2: Temposonics® RFV with ring magnet

CONNECTOR WIRING




| D58 | | |
|---|------------|----------------------|
| Port 1 – Signal | | |
| M12 female connector (D-coded) | Pin | Function |
|  <p>View on sensor</p> | 1 | Tx (+) |
| | 2 | Rx (+) |
| | 3 | Tx (-) |
| | 4 | Rx (-) |
| Port 2 – Signal | | |
| M12 female connector (D-coded) | Pin | Function |
|  <p>View on sensor</p> | 1 | Tx (+) |
| | 2 | Rx (+) |
| | 3 | Tx (-) |
| | 4 | Rx (-) |
| Power supply | | |
| M12 male connector (A-coded) | Pin | Function |
|  <p>View on sensor</p> | 1 | +12...30 VDC (±20 %) |
| | 2 | Not connected |
| | 3 | DC Ground (0 V) |
| | 4 | Not connected |

Fig. 3: Connector wiring D58

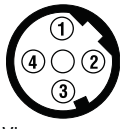
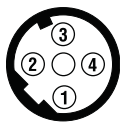

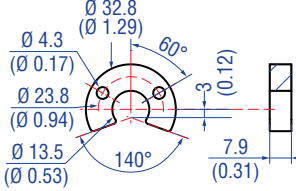
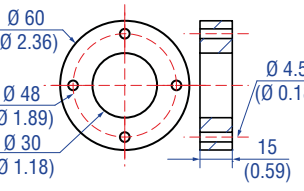
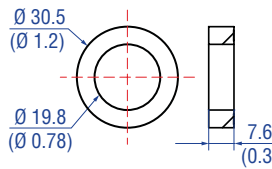
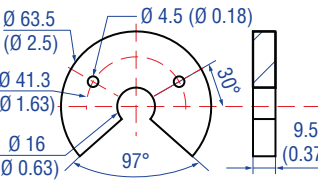
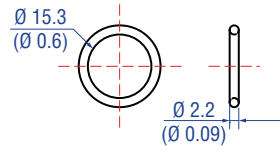
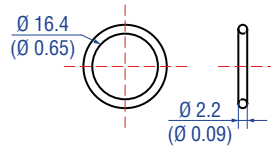
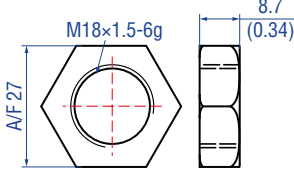
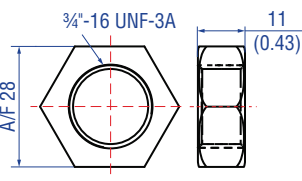


| D56 | | |
|--|------------|----------------------|
| Port 1 – Signal | | |
| M12 female connector (D-coded) | Pin | Function |
|  <p>View on sensor</p> | 1 | Tx (+) |
| | 2 | Rx (+) |
| | 3 | Tx (-) |
| | 4 | Rx (-) |
| Port 2 – Signal | | |
| M12 female connector (D-coded) | Pin | Function |
|  <p>View on sensor</p> | 1 | Tx (+) |
| | 2 | Rx (+) |
| | 3 | Tx (-) |
| | 4 | Rx (-) |
| Power supply | | |
| M8 male connector | Pin | Function |
|  <p>View on sensor</p> | 1 | +12...30 VDC (±20 %) |
| | 2 | Not connected |
| | 3 | DC Ground (0 V) |
| | 4 | Not connected |

Fig. 4: Connector wiring D56

FREQUENTLY ORDERED ACCESSORIES – Additional options available in our [Accessories Guide](#) 551444

| Position magnets | | | |
|--|---|---|--|
|  |  |  |  |
| <p>U-magnet OD33 Part no. 251 416-2</p> | <p>Ring magnet OD60 Part no. MT0162</p> | <p>Ring magnet Part no. 402 316</p> | <p>U-magnet OD63.5 Part no. 201 553</p> |
| <p>Material: PA ferrite GF20 Weight: Approx. 11 g Surface pressure: Max. 40 N/mm² Fastening torque for M4 screws: 1 Nm Operating temperature: -40...+105 °C (-40...+221 °F)</p> | <p>Material: AlCuMgPb, magnets compound-filled Weight: Approx. 90 g Surface pressure: Max. 20 N/mm² Fastening torque for M4 screws: 1 Nm Operating temperature: -40...+75 °C (-40...+167 °F)</p> | <p>Material: PA ferrite coated Weight: Approx. 13 g Surface pressure: Max. 20 N/mm² Operating temperature: -40...+100 °C (-40...+212 °F)</p> | <p>Material: PA 66-GF30, magnets compound-filled Weight: Approx. 26 g Surface pressure: 20 N/mm² Fastening torque for M4 screws: 1 Nm Operating temperature: -40...+75 °C (-40...+167 °F)</p> |
| O-rings | | | |
|  |  |  |  |
| <p>O-ring for threaded flange M18x1.5-6g Part no. 401 133</p> | <p>O-ring for threaded flange 3/4-16 UNF-3A Part no. 560 315</p> | <p>Hex jam nut M18x1.5-6g Part no. 500 018</p> | <p>Hex jam nut 3/4-16 UNF-3A Part no. 500 015</p> |
| <p>Material: Fluoroelastomer Durometer: 75 ± 5 Shore A Operating temperature: -40...+204 °C (-40...+400 °F)</p> | <p>Material: Fluoroelastomer Durometer: 75 ± 5 Shore A Operating temperature: -40...+204 °C (-40...+400 °F)</p> | <p>Material: Steel, zinc plated</p> | <p>Material: Steel, zinc plated</p> |
| Mounting accessories | | | |
|  |  | | |
| <p>Threaded flange M18x1.5-6g Part no. 404 874</p> | <p>Threaded flange 3/4-16 UNF-3A Part no. 404 875</p> | | |
| <p>Material: Stainless steel 1.4305 (AISI 303)</p> | <p>Material: Stainless steel 1.4305 (AISI 303)</p> | | |

Controlling design dimensions are in millimeters and measurements in () are in inches

Mounting accessories



Pressure rod with threaded flange with flat-face (M18x1.5-6g) and O-ring
HD [length mm: XXXX] M
HD [length in.: XXX.X] U

Pressure rod Ø: 12.7 mm (0.5 in.)
Length: 100...7500 mm (4...295 in.)
Operating pressure: 350 bar (5076 psi)
Material flange:
Stainless steel 1.4305 (AISI 303)
Material rod:
Stainless steel 1.4301 (AISI 304)



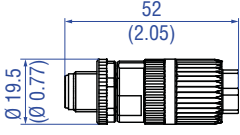
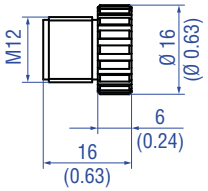
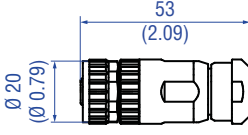
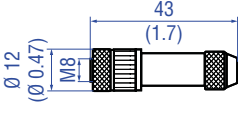
Pressure rod with threaded flange with flat-face (3/4"-16 UNF-3A) and O-ring
HL [length mm: XXXX] M
HL [length in.: XXX.X] U





Pressure rod Ø: 12.7 mm (0.5 in.)
Length: 100...7500 mm (4...295 in.)
Operating pressure: 350 bar (5076 psi)
Material flange:
Stainless steel 1.4305 (AISI 303)
Material rod:
Stainless steel 1.4301 (AISI 304)







Profile with flange
HFP [length mm: XXXXX] M
HFP [length in.: XXXX.X] U

Length: Max. 20 000 mm (max. 787 in.)
Ingress protection: IP30
Material: Aluminum

| Cable connectors* – Signal | | Cable connectors* – Power | |
|---|--|--|---|
|  |  |  |  |
| M12 D-coded male connector (4 pin), straight Part no. 370 523 | M12 connector end cap Part no. 370 537 | M12 A-coded female connector (4 pin/5 pin), straight Part no. 370 677 | M8 female connector (4 pin), straight Part no. 370 504 |
| Material: Zinc nickel-plated Termination: Insulation-displacement Cable Ø: 5.5...7.2 mm (0.2...0.28 in.) Wire: 24 AWG – 22 AWG Operating temperature: –25...+85 °C (–13...+185 °F) Ingress protection: IP65 / IP67 (correctly fitted) Fastening torque: 0.6 Nm | Female connectors M12 should be covered by this protective cap Material: Brass nickel-plated Ingress protection: IP67 (correctly fitted) Fastening torque: 0.39...0.49 Nm | Material: GD-Zn, Ni Termination: Screw Contact insert: CuZn Cable Ø: 4...8 mm (0.16...0.31 in.) Wire: 1.5 mm ² Operating temperature: –30...+85 °C (–22...+185 °F) Ingress protection: IP67 (correctly fitted) Fastening torque: 0.6 Nm | Material: CuZn nickel plated Termination: Solder Cable Ø: 3.5...5 mm (0.14...0.28 in.) Wire: 0.25 mm ² Operating temperature: –40...+85 °C (–40...+185 °F) Ingress protection: IP67 (correctly fitted) Fastening torque: 0.5 Nm |

| Cables | | Cable sets | |
|--|---|---|---|
|  |  |  |  |
| PUR signal cable Part no. 530 125 | PVC power cable Part no. 530 108 | Signal cable with M12 D-coded male connector (4 pin), straight – M12 D-coded, male connector (4 pin), straight Part no. 530 064 | Signal cable with M12 D-coded male connector (4 pin), straight – RJ45 male connector, straight Part no. 530 065 |
| Material: PUR jacket; green Features: Cat 5, highly flexible, halogen free, suitable for drag chains, mostly oil & flame resistant Cable Ø: 6.5 mm (0.26 in.) Cross section: 2 × 2 × 0.35 mm ² (22 AWG) Bending radius: 5 × D (fixed installation) Operating temperature: –20...+60 °C (–4...+140 °F) | Material: PVC jacket; gray Features: Shielded, flexible, mostly flame resistant Cable Ø: 4.9 mm (0.19 in.) Cross section: 3 × 0.34 mm ² Bending radius: 5 × D (fixed installation) Operating temperature: –30...+80 °C (–22...+176 °F) | Material: PUR jacket; green Features: Cat 5e Cable length: 5 m (16.4 ft) Cable Ø: 6.5 mm (0.26 in.) Ingress protection: IP65, IP67, IP68 (correctly fitted) Operating temperature: –30...+70 °C (–22...+158 °F) | Material: PUR jacket; green Features: Cat 5e Cable length: 5 m (16.4 ft) Cable Ø: 6.5 mm (0.26 in.) Ingress protection M12 connector: IP67 (correctly fitted) Ingress protection RJ45 connector: IP20 (correctly fitted) Operating temperature: –30...+70 °C (–22...+158 °F) |

*/ Follow the manufacturer's mounting instructions
 Controlling design dimensions are in millimeters and measurements in () are in inches
 Color of connectors and cable jacket may change. Colors of the cores and technical properties remain unchanged.

| Cable sets | | Programming tools | |
|--|---|--|---|
|  |  |  |  |
| <p>Power cable with M8 female connector (4 pin), straight – pigtail Part no. 530 066 (5 m (16.4 ft.)) Part no. 530 096 (10 m (32.8 ft.)) Part no. 530 093 (15 m (49.2 ft.))</p> | <p>Power cable with M12 A-coded female connector (5 pin), straight – pigtail Part no. 370 673</p> | <p>TempoLink® kit for Temposonics® R-Series V Part no. TL-1-0-EM08 (D56) Part no. TL-1-0-EM12 (D58)</p> | <p>TempoGate® smart assistant for Temposonics® R-Series V Part no. TG-C-0-Dxx (xx indicates the number of R-Series V sensors that can be connected (even numbers only))</p> |
| <p>Material: PUR jacket; gray Features: Shielded Cable Ø: 5 mm (0.2 in.) Operating temperature: -40...+90 °C (-40...+194 °F)</p> | <p>Material: PUR jacket; black Features: Shielded Cable length: 5 m (16.4 ft.) Ingress protection: IP67 (correctly fitted) Operating temperature: -25...+80 °C (-13...+176 °F)</p> | <ul style="list-style-type: none"> • Connect wirelessly via Wi-Fi enabled device or via USB with the diagnostic tool • Simple connectivity to the sensor via 24 VDC power line (permissible cable length: 30 m) • User friendly interface for mobile devices and desktop computers • See data sheet “TempoLink® smart assistant” (document part no.: 552070) for further information | <ul style="list-style-type: none"> • OPC UA server for diagnostics of the R-Series V • For installation in the control cabinet • Connection via LAN and Wi-Fi • See data sheet “TempoGate® smart assistant” document part no.: 552110 for further information |

Color of connectors and cable jacket may change. Colors of the cores and technical properties remain unchanged.

ORDER CODE

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| R | F | V | | | | | | | | | | D | 5 | | 1 | U | 3 | 0 | 1 |
| a | | | b | d | | | | | | e | f | | | g | h | | | | |

| | |
|----------|---------------------|
| a | Sensor model |
| R F V | Flexible rod |

| | |
|----------|---|
| b | Design |
| B | Base unit |
| M | Threaded flange M18×1.5-6g (standard) |
| S | Threaded flange ¾"-16 UNF-3A (standard) |

Section **c** is intentionally omitted.

| | |
|----------|----------------------|
| d | Stroke length |
|----------|----------------------|

| | |
|-------------|------------------|
| X X X X X M | 00150...20000 mm |
|-------------|------------------|

| Stroke length (mm) | Ordering steps |
|--------------------|----------------|
| 150... 1000 mm | 50 mm |
| 1000... 5000 mm | 100 mm |
| 5000...10000 mm | 250 mm |
| 10000...15000 mm | 500 mm |
| 15000...20000 mm | 1000 mm |

| | |
|-------------|---------------------|
| X X X X X U | 0006.0...0787.0 in. |
|-------------|---------------------|

| Stroke length (in.) | Ordering steps |
|---------------------|----------------|
| 6... 40 in. | 2 in. |
| 40...197 in. | 4 in. |
| 197...394 in. | 10 in. |
| 394...591 in. | 20 in. |
| 591...787 in. | 40 in. |

Non standard stroke lengths are available;
must be encoded in 5 mm/0.1 in. increments

| | |
|----------|--------------------------|
| e | Number of magnets |
|----------|--------------------------|

| | |
|-----|--|
| X X | 01...30 position(s) (1...30 magnet(s)) |
|-----|--|

| | |
|----------|--|
| f | Connection type |
| D 5 6 | 2×M12 female connectors (D-coded), 1×M8 male connector |
| D 5 8 | 2×M12 female connectors (D-coded), 1×M12 male connector (A-coded) |

| | |
|----------|---------------|
| g | System |
| 1 | Standard |

| | |
|----------|--|
| h | Output |
| U 3 0 1 | POWERLINK, position and velocity (1...30 magnet(s)) |

NOTICE

- Specify the number of magnets for your application and order the magnets separately.
- The number of magnets is limited by the stroke length. The minimum allowed distance between magnets (i.e. front face of one to the front face of the next one) is 75 mm (3 in.).
- Use magnets of the same type for multi-position measurement.

DELIVERY



RFV-B:

- Base unit (without flange & rod assembly)
- 3 × socket screws M4×59

RFV-M/-S:

- Sensor
- O-ring

Accessories have to be ordered separately.

Manuals, Software & 3D Models available at:
www.temposonics.com

GLOSSARY

E

Extrapolation

The native measurement cycle time of a sensor increases with the stroke length. With extrapolation, the sensor is able to report data faster than the native cycle time, independent of the stroke length of the sensor. Without extrapolation, if data is requested faster than the native cycle time, the last measured value is repeated.

M

Multi-position measurement

During the measurement cycle, the positions of every magnet on the sensor are simultaneously reported. The velocity is continuously calculated based on these changing position values as the magnets are moved.

N

Node ID

The addressing of the devices in a POWERLINK network is done via the node ID. Each node ID only exists once in a network. It can have a value between 1 and 240 (while 240 is reserved for the Managing Node). Meaning that a POWERLINK network can comprise up to 240 devices. With the R-Series V POWERLINK, the node ID (delivered with node ID 1) can be set via the TempoLink smart assistant, for example.

P

POWERLINK

POWERLINK is an Industrial Ethernet interface and is managed by the Ethernet POWERLINK Standardization Group (EPG). The R-Series V POWERLINK and its corresponding XDD file are certified by the EPG.

S

Synchronization mode

R-Series V POWERLINK supports synchronization mode. The synchronization mode enables clock-synchronous data exchange between sensor and control. The synchronous measurement is an essential requirement for motion-controlled applications

X

XDD file

The properties and functions of a POWERLINK device are described in an XDD file (XML Device Description). The XML-based XDD file contains all relevant data that are important for the implementation of the device in the controller as well as for data exchange during operation. The XDD file of the R-Series V POWERLINK is available on the homepage www.temposonics.com.

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