Temposonics
AN AMPHENOL COMPANY

Catalog

Accessories
for industrial sensors

Temposonics accessories for industrial sensors
Catalog

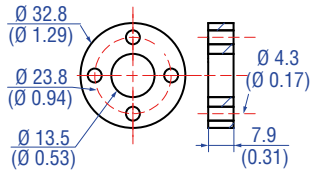
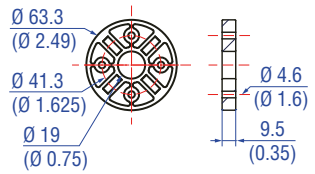
Table of contents

Introduction

This brochure provides an overview of accessories for our industrial sensors. It supplements the specifications in the data sheets and operation manuals of the individual sensors. For each accessory, it is specified for which sensor it is suitable and which one has been used most. So you can quickly and easily find the right accessories for your Temposonics sensor.
In order to simplify the search, the items are sorted in ascending order according to their part number.

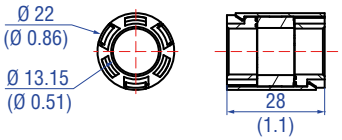
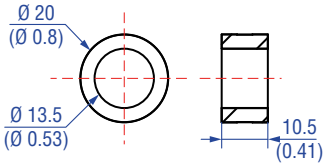
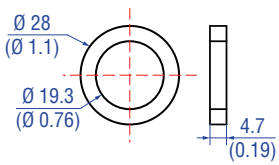
1. Position magnets

1.1 Ring magnets

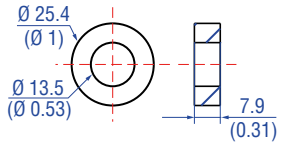
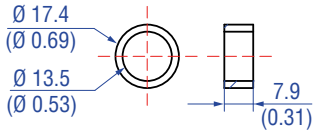
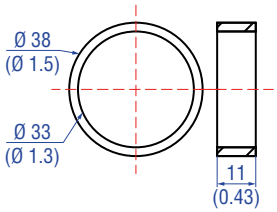
Drawing	Name & part number	Description	Series & design
	**Ring magnet OD33** **Part no. 201 542-2** R	Material: PA ferrite GF20 Weight: Approx. 14 g Surface pressure: Max. 40 N/mm² Fastening torque for M4 screws: 1 Nm Operating temperature: –40…+105 °C (–40…+221 °F)	**E-Series** EH, EE, ET (rod) **G-Series** GH, GT, GTE **GB-Series** GB **R-Series** RH, RD4, RT4 **R-Series V** RH5, RDV **T-Series** TH (standard), TH (SIL)
	**Ring magnet OD63.5** **Part no. 201 554**	Material: PA 66-GF30, magnet slugs potted Weight: Approx. 35 g Surface pressure: Max. 20 N/mm² Fastening torque for M4 screws: 1 Nm Operating temperature: –40…+75 °C (–40…+167 °F)	**E-Series** EH, EE, ET (rod) **G-Series** GH, GT, GTE **GB-Series** GB **R-Series** RH, RD4, RT4, RF **R-Series V** RH5, RDV, RFV **T-Series** TH (standard)

Recommended accessories are marked with the following sign: R

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

Drawing	Name & part number	Description	Series & design
	**System magnet** **Part no. 253 928**	Material: Composite POM Weight: Approx. 14 g Surface pressure: Max. 20 N/mm² Operating temperature: –40…+75 °C (–40…+167 °F)	**E-Series** EH, EE, ET (rod) **G-Series** GH, GT, GTE **GB-Series** GB **R-Series** RH, RD4, RT4 **R-Series V** RH5, RDV **T-Series** TH (standard)
	**Ring magnet OD20** **Part no. 254 012**	Material: Composite neobond Weight: Approx. 8.5 g Surface pressure: Max. 20 N/mm² Operating temperature: –40…+75 °C (–40…+167 °F)	**E-Series** EH, EE, ET (rod) **G-Series** GH, GT, GTE **GB-Series** GB **R-Series** RH, RD4, RT4 **R-Series V** RH5, RDV **T-Series** TH (standard)
	**Ring magnet OD28** **Part no. 400 424**	Material: Composite PA ferrite GF20 Weight: Approx. 6 g Surface pressure: Max. 20 N/mm² Operating temperature: –40…+100 °C (–40…+212 °F)	**E-Series** EH, EE, ET (rod) **G-Series** GH, GT, GTE **GB-Series** GB **R-Series** RH, RD4, RT4, RF **R-Series V** RH5, RDV, RFV **T-Series** TH (standard), TH (SIL)

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

Drawing	Name & part number	Description	Series & design
	**Ring magnet OD25.4** **Part no. 400 533** R	Material: PA ferrite Weight: Approx. 10 g Surface pressure: Max. 40 N/mm² Operating temperature: –40…+105 °C (–40…+221 °F)	**E-Series** EH, EE, ET (rod) **G-Series** GH, GT, GTE **GB-Series** GB **R-Series** RH, RD4, RT4 **R-Series V** RH5, RDV **T-Series** TH (standard), TH (SIL)
	**Ring magnet OD17.4** **Part no. 401 032**	Material: PA neobond Weight: Approx. 5 g Surface pressure: Max. 20 N/mm² Operating temperature: –40…+105 °C (–40…+221 °F)	**E-Series** EH, EE, ET (rod) **G-Series** GH, GT, GTE **GB-Series** GB **R-Series** RH, RD4, RT4 **R-Series V** RH5, RDV **T-Series** TH (standard)
	**Ring magnet** **Part no. 401 468**	Material: PA ferrite Weight: Approx. 17 g Surface pressure: Max. 20 N/mm² Operating temperature: –40…+100 °C (–40…+212 °F) Contact application engineering for handling guidelines.	**E-Series** EH, EE, ET (rod) **G-Series** GH, GT, GTE **GB-Series** GB **R-Series** RH, RD4, RT4, RF **R-Series V** RH5, RDV, RFV **T-Series** TH (standard)

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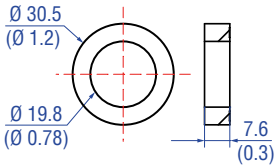
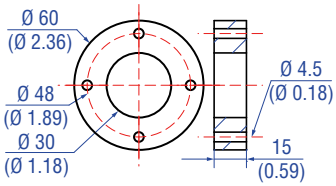
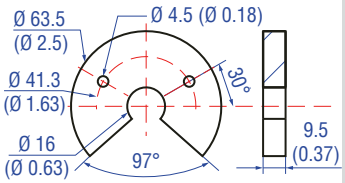
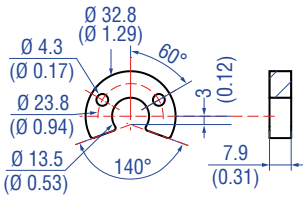
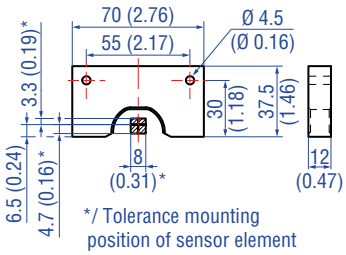
Drawing	Name & part number	Description	Series & design
	**Ring magnet** **Part no. 402 316**	Material: PA ferrite coated Weight: Approx. 13 g Surface pressure: Max. 20 N/mm² Operating temperature: –40…+100 °C (–40…+212 °F)	**E-Series** EH, EE, ET (rod) **G-Series** GH, GT, GTE **GB-Series** GB **R-Series** RH, RD4, RT4, RF **R-Series V** RH5, RDV, RFV **T-Series** TH (standard), TH (SIL)
	**Ring magnet OD60** **Part no. MT0162**	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)	**E-Series** EH, EE, ET (rod) **G-Series** GH, GT, GTE **GB-Series** GB **R-Series** RH, RD4, RT4, RF **R-Series V** RH5, RDV, RFV **T-Series** TH (standard)

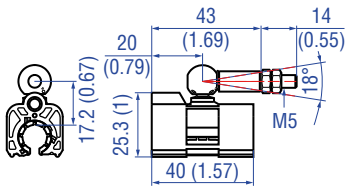
1.2 U-magnets

Drawing	Name & part number	Description	Series & design
	**U-magnet OD63.5** **Part no. 201 553**	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)	**E-Series** EH, EE, ET (rod) **G-Series** GH, GT, GTE **GB-Series** GB **R-Series** RH, RD4, RT4, RF **R-Series V** RH5, RDV, RFV **T-Series** TH (standard), TH (SIL)

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

Drawing	Name & part number	Description	Series & design
	**U-magnet OD33** **Part no. 251 416-2** R	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)	**E-Series** EH, EP, EE, ET (rod/profile) **G-Series** GH, GP, GT, GTE **GB-Series** GB **R-Series** RH, RP, RD4, RT4, RF + HFP **R-Series V** RH5, RP5, RDV, RFV + HFP **T-Series** TH (standard), TH (SIL)
	**U-magnet** **Part no. 252 185**	Material: AlMg4.5Mn, black anodised; magnets compound-filled Weight: Approx. 125 g Surface pressure: Max. 20 N/mm² Fastening torque for M4 screws: 4 Nm Operating temperature: –40…+75 °C (–40…+167 °F) This magnet may influence the sensor performance specifications for some applications.	**E-Series** EH, EP, EL, EE, ET (rod/profile) **G-Series** GH, GP, GT, GTE **GB-Series** GB **R-Series** RH, RP, RD4, RT4, RF **R-Series V** RH5, RP5, RDV, RFV **T-Series** TH (standard), TH (SIL)

1.3 Magnet sliders

Drawing	Name & part number	Description	Series & design
	**Magnet slider S, joint at top** **Part no. 252 182** R	Material: GRP, magnet hard ferrite Weight: Approx. 35 g Operating temperature: –40…+85 °C (–40…+185 °F)	**E-Series** EP, EL, ET (profile) **G-Series** GP **R-Series** RP **R-Series V** RP5

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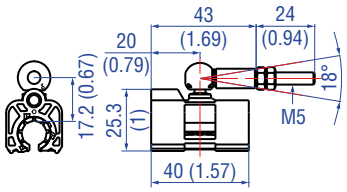
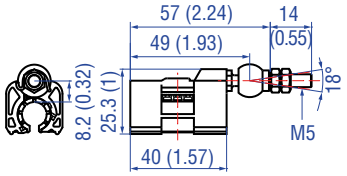
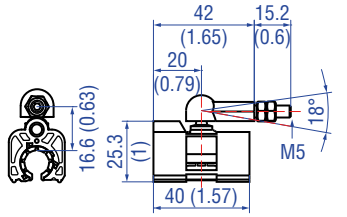
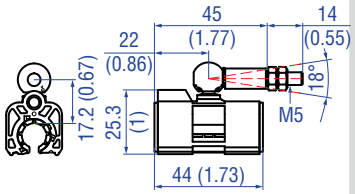
Drawing	Name & part number	Description	Series & design
	**Magnet slider N longer ball-joint arm Part no. 252 183**	Material: GRP, magnet hard ferrite Weight: Approx. 35 g Operating temperature: –40…+85 °C (–40…+185 °F)	**E-Series** EP, EL, ET (profile) **G-Series** GP **R-Series** RP **R-Series V** RP5
	**Magnet slider V, joint at front Part no. 252 184**	Material: GRP, magnet hard ferrite Weight: Approx. 35 g Operating temperature: –40…+85 °C (–40…+185 °F)	**E-Series** EP, EL, ET (profile) **G-Series** GP **R-Series** RP **R-Series V** RP5
	**Magnet slider G, backlash free Part no. 253 421**	Material: GRP, magnet hard ferrite Weight: Approx. 25 g Operating temperature: –40…+85 °C (–40…+185 °F)	**E-Series** EP, EL, ET (profile) **G-Series** GP **R-Series** RP **R-Series V** RP5
	**Magnet slider P, with additional end plates Part no. 253 673**	Material: GRP, magnet hard ferrite Weight: Approx. 38 g Operating temperature: –40…+75 °C (–40…+167 °F)	**E-Series** EP, EL, ET (profile) **G-Series** GP **R-Series** RP **R-Series V** RP5

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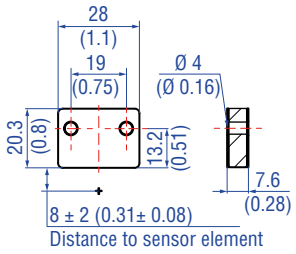
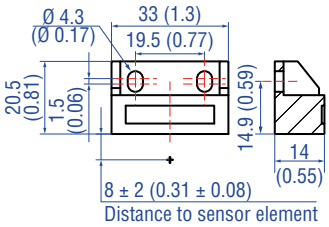
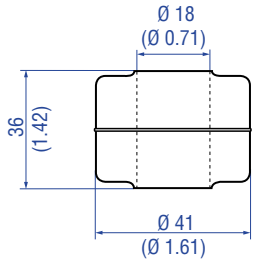
1.4 Block magnets

Drawing	Name & part number	Description	Series & design
	**Block magnet K** **Part no. 251 298-2**	Material: XOLOX Neobond 50L Weight: Approx. 22 g Surface pressure: Max. 20 N/mm² Fastening torque for M4 screws: 1 Nm Operating temperature: –40…+105 °C (–40…+221 °F) This magnet may influence the sensor performance specifications for some applications.	**E-Series** EH, EP, EL, EE, ET (rod/profile) **G-Series** GH, GP, GT, GTE **GB-Series** GB **R-Series** RH, RP, RD4, RF **R-Series V** RH5, RP5, RDV, RFV **T-Series** TH (standard), TH (SIL)
	**Block magnet L** **Part no. 403 448**	Material: Plastic carrier with hard ferrite magnet Weight: Approx. 20 g Fastening torque for M4 screws: 1 Nm Operating temperature: –40…+75 °C (–40…+167 °F) This magnet may influence the sensor performance specifications for some applications.	**E-Series** EH, EP, EP2, EL, EE, ET (rod/profile) **G-Series** GH, GP, GT, GTE **GB-Series** GB **R-Series** RH, RP, RD4, RF **R-Series V** RH5, RP5, RDV, RFV **T-Series** TH (standard), TH (SIL)

1.5 Floats

Drawing	Name & part number	Description	Series & design
	**Float** **Part no. 200 938-2**	Material: Stainless steel (AISI 316L) Weight offset: Yes Pressure: 8.6 bar (125 psi) Magnet offset: No Specific gravity: Max. 0.74 Operating temperature: –40…+125 °C (–40…+257 °F)	**E-Series** EH, EE, ET (rod) **G-Series** GH, GT, GTE **GB-Series** GB **R-Series** RH, RD4, RT4, RF **R-Series V** RH5, RDV, RFV **T-Series** TH (standard), TH (SIL)

- Be sure that the float specific gravity is at least 0.05 less than that of the measured liquid as a safety margin at ambient temperature.
- For interface measurement: A minimum of 0.05 specific gravity differential is required between the upper and lower liquids.
- When the magnet is not shown, the magnet is positioned at the center line of float.
- An offset weight is installed in the float to bias or tilt the float installed on the sensor tube. So the float remains in contact with the sensor tube at all times and guarantees permanent potential equalization of the float. The offset is required for installations that must conform to hazardous location standards.

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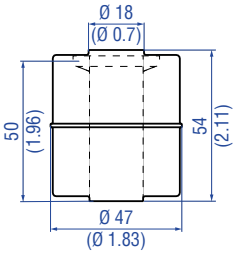
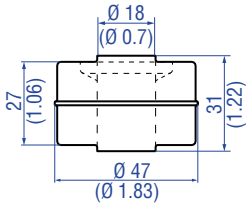
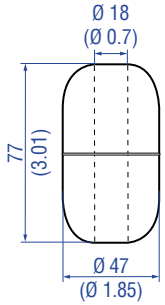
Drawing	Name & part number	Description	Series & design
	**Float** **Part no. 201 605-2**	Material: Stainless steel 1.4571 (AISI 316 Ti) Weight offset: Yes Pressure: 4 bar (60 psi) Magnet offset: Yes Specific gravity: Max. 0.6 Operating temperature: –40…+125 °C (–40…+257 °F)	**E-Series** EH, EE, ET (rod) **G-Series** GH, GT, GTE **GB-Series** GB **R-Series** RH, RD4, RT4, RF **R-Series V** RH5, RDV, RFV **T-Series** TH (standard)
	**Float** **Part no. 201 606-2**	Material: Stainless steel 1.4571 (AISI 316 Ti) Weight offset: Yes Pressure: 4 bar (60 psi) Magnet offset: Yes Specific gravity: 0.93 ± 0.01 Operating temperature: –40…+125 °C (–40…+257 °F)	**E-Series** EH, EE, ET (rod) **G-Series** GH, GT, GTE **GB-Series** GB **R-Series** RH, RD4, RT4, RF **R-Series V** RH5, RDV, RFV **T-Series** TH (standard)
	**Float** **Part no. 251 981-2**	Material: Stainless steel (AISI 316L) Pressure: 29.3 bar (425 psi) Specific gravity: Max. 0.67 Operating temperature: –40…+125 °C (–40…+257 °F)	**E-Series** EH, EE, ET (rod) **G-Series** GH, GT, GTE **GB-Series** GB **R-Series** RH, RD4, RT4, RF **R-Series V** RH5, RDV, RFV **T-Series** TH (standard)

- Be sure that the float specific gravity is at least 0.05 less than that of the measured liquid as a safety margin at ambient temperature.
- For interface measurement: A minimum of 0.05 specific gravity differential is required between the upper and lower liquids.
- When the magnet is not shown, the magnet is positioned at the center line of float.
- An offset weight is installed in the float to bias or tilt the float installed on the sensor tube. So the float remains in contact with the sensor tube at all times and guarantees permanent potential equalization of the float. The offset is required for installations that must conform to hazardous location standards.

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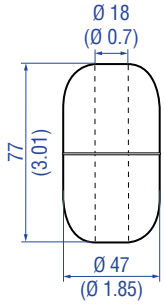
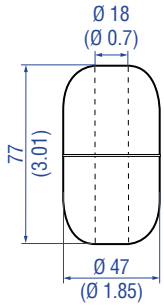
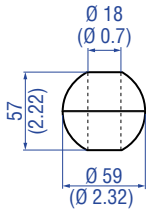
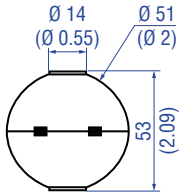
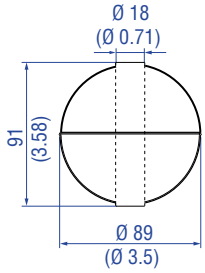
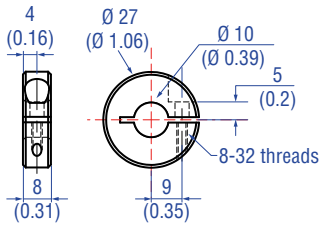
Drawing	Name & part number	Description	Series & design
	**Float** **Part no. 251 982-2**	Material: Stainless steel (AISI 316L) Weight offset: Yes Pressure: 29.3 bar (425 psi) Magnet offset: No Specific gravity: 0.93 ± 0.01 Operating temperature: –40…+125 °C (–40…+257 °F)	**E-Series** EH, EE, ET (rod) **G-Series** GH, GT, GTE **GB-Series** GB **R-Series** RH, RD4, RT4, RF **R-Series V** RH5, RDV, RFV **T-Series** TH (standard)
	**Float** **Part no. 251 983-2**	Material: Stainless steel (AISI 316L) Weight offset: Yes Pressure: 29.3 bar (425 psi) Magnet offset: No Specific gravity: 1.06 ± 0.01 Operating temperature: –40…+125 °C (–40…+257 °F)	**E-Series** EH, EE, ET (rod) **G-Series** GH, GT, GTE **GB-Series** GB **R-Series** RH, RD4, RT4, RF **R-Series V** RH5, RDV, RFV **T-Series** TH (standard)
	**Float** **Part no. 251 387-2**	Material: Stainless steel (AISI 316L) Weight offset: Yes Pressure: 22.4 bar (325 psi) Magnet offset: No Specific gravity: Max. 0.48 Operating temperature: –40…+125 °C (–40…+257 °F)	**E-Series** EH, EE, ET (rod) **G-Series** GH, GT, GTE **GB-Series** GB **R-Series** RH, RD4, RT4, RF **R-Series V** RH5, RFV, RDV **T-Series** TH (standard), TH (SIL)

- Be sure that the float specific gravity is at least 0.05 less than that of the measured liquid as a safety margin at ambient temperature.
- For interface measurement: A minimum of 0.05 specific gravity differential is required between the upper and lower liquids.
- When the magnet is not shown, the magnet is positioned at the center line of float.
- An offset weight is installed in the float to bias or tilt the float installed on the sensor tube. So the float remains in contact with the sensor tube at all times and guarantees permanent potential equalization of the float. The offset is required for installations that must conform to hazardous location standards.

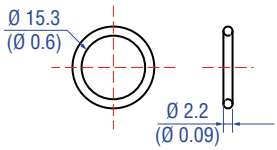
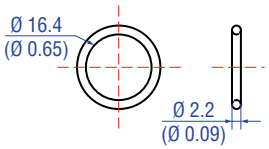
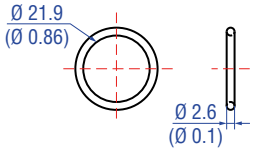
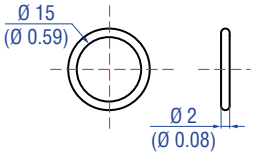
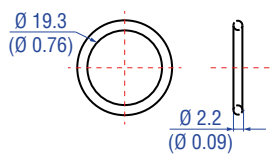
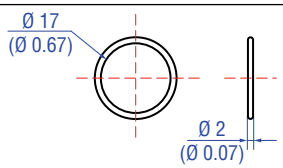
Controlling design dimensions are in millimeters and measurements in ( ) are in inches

Drawing	Name & part number	Description	Series & design
	**Float** **Part no. 251 447**	Material: Stainless steel (AISI 304) Specific gravity: Max. 0.72 Pressure: Max. 60 bar (870 psi) Operating temperature: –40…+145 °C (–40…+293 °F)	**E-Series** EH, EE, ET (rod) **G-Series** GH, GT, GTE **GB-Series** GB **R-Series** RH, RD4, RT4, RF **R-Series V** RH5, RDV, RFV **T-Series** TH (standard)
	**Float** **Part no. 251 469-2**	Material: Stainless steel (AISI 316L) Weight offset: Yes Pressure: 29.3 bar (425 psi) Magnet offset: No Specific gravity: Max. 0.45 Operating temperature: –40…+125 °C (–40…+257 °F)	**E-Series** EH, EE, ET (rod) **G-Series** GH, GT, GTE **GB-Series** GB **R-Series** RH, RD4, RT4, RF **R-Series V** RH5, RDV, RFV **T-Series** TH (standard)
	**Stop collar for Ø 10 mm** **Part no. 560 777**	Provides end of stroke stops for float Material: Stainless steel 1.4301 (AISI 304) Weight: Approx. 30 g Hex key 7⁄64" required	**E-Series** EH, EE, ET (rod) **G-Series** GH, GT, GTE **GB-Series** GB **R-Series** RH, RD4, RT4 **R-Series V** RH5, RDV **T-Series** TH (standard), TH (SIL)

- Be sure that the float specific gravity is at least 0.05 less than that of the measured liquid as a safety margin at ambient temperature.
- For interface measurement: A minimum of 0.05 specific gravity differential is required between the upper and lower liquids.
- When the magnet is not shown, the magnet is positioned at the center line of float.
- An offset weight is installed in the float to bias or tilt the float installed on the sensor tube. So the float remains in contact with the sensor tube at all times and guarantees permanent potential equalization of the float. The offset is required for installations that must conform to hazardous location standards.

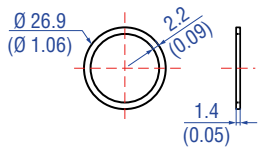
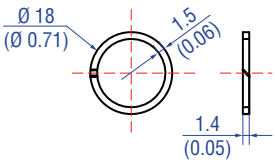
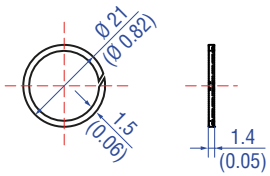
Controlling design dimensions are in millimeters and measurements in ( ) are in inches

2. O-rings

Drawing	Name & part number	Description	Series & design
	**O-ring for threaded flange M18×1.5-6g Part no. 401 133**	Material: Fluoroelastomer Durometer: 75 ± 5 Shore A Operating temperature: –40…+204 °C (–40…+400 °F)	**E-Series** EH, ET (rod) **G-Series** GH, GT **GB-Series** GB **R-Series** RH, RD4, RF **R-Series V** RH5, RDV, RFV **T-Series** TH (standard), TH (SIL)
	**O-ring for threaded flange ¾"-16 UNF-3A Part no. 560 315**	Material: Fluoroelastomer Durometer: 75 ± 5 Shore A Operating temperature: –40…+204 °C (–40…+400 °F)	**E-Series** EH, ET (rod) **G-Series** GH, GT **GB-Series** GB **R-Series** RH, RD4, RF **R-Series V** RH5, RDV, RFV **T-Series** TH (standard), TH (SIL)
	**O-ring for pressure fit flange Ø 26.9 mm Part no. 560 705**	Material: Nitrile rubber Operating temperature: –53…+107 °C (–65…+225 °F)	**R-Series** RD4 **R-Series V** RDV
	**O-ring for pressure fit flange Ø 18 mm Part no. 560 853**	Material: Fluoroelastomer Durometer: 75 Shore A Operating temperature: –40…+200 °C (–40…+392 °F)	**GB-Series** GB
	**O-ring for threaded flange M22×1.5-6g Part no. 561 337**	Material: FPM Durometer: 75 Shore A Operating temperature: –20…+200 °C (–6…+392 °F)	**R-Series** RH **R-Series V** RH5
	**O-ring for pressure fit flange Ø 21 mm Part no. 561 438**	Material: FKM Durometer: 75 Shore A Operating temperature: –18…+200 °C (–0.4…+392 °F)	**GB-Series** GB

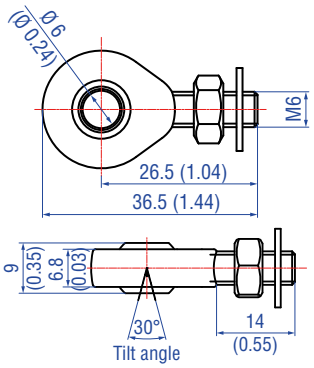
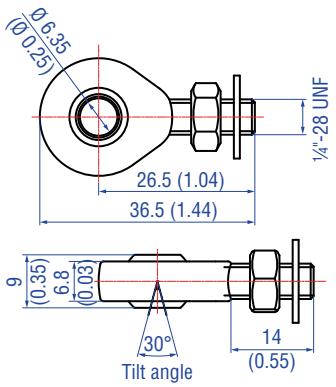
Controlling design dimensions are in millimeters and measurements in ( ) are in inches

3. Back-up rings

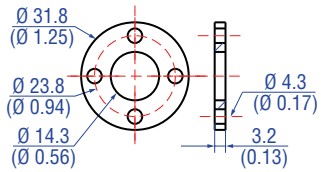
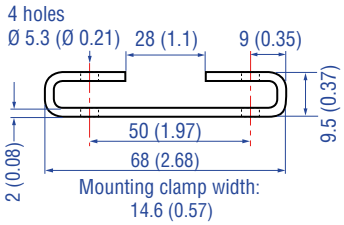
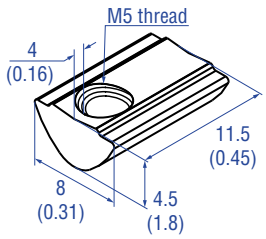
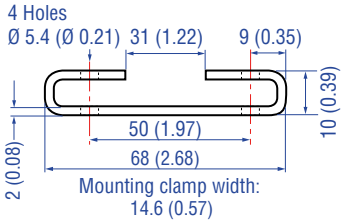
Drawing	Name & part number	Description	Series & design
	**Back-up ring for pressure fit flange** **Ø 26.9 mm** **Part no. 560 629**	Material: Polymyte Durometer: 90 Shore A	**R-Series** RD4 **R-Series V** RDV
	**Back-up ring for pressure fit flange** **Ø 18 mm** **Part no. 561 115**	Material: PTFE + 60 % bronze	**GB-Series** GB
	**Back-up ring for pressure fit flange** **Ø 21 mm** **Part no. 561 439**	Material: PTFE	**GB-Series** GB

4. Mounting accessories

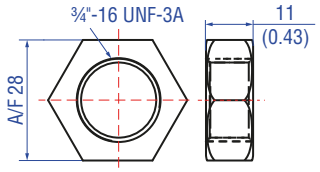
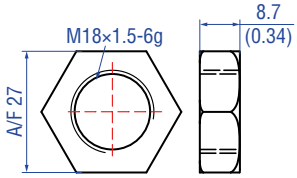
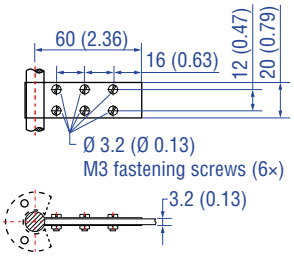
4.1 General accessories

Photo/Drawing	Name & part number	Description	Series & design
	**Rod end with M6 thread** **Part no. 254 210**	Material: Galvanized steel	**E-Series** ER
	**Rod end with ¼"-28 UNF thread** **Part no. 254 235**	Material: Galvanized steel	**E-Series** ER

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

Photo/Drawing	Name & part number	Description	Series & design
	**Magnet spacer** **Part no. 400 633**	Material: Aluminum Weight: Approx. 5 g Surface pressure: Max. 20 N/mm² Fastening torque for M4 screws: 1 Nm	**E-Series** EH, EE, ET (rod) **G-Series** GH, GT, GTE **GB-Series** GB **R-Series** RH, RD4, RT4 **R-Series V** RH5, RDV **T-Series** TH (standard), TH (SIL)
	**Mounting clamp** **Part no. 400 802**	Material: Stainless steel (AISI 304)	**E-Series** ET (profile) **G-Series** GP **R-Series** RP, HFP **R-Series V** RP5, HFP
	**T-nut** **Part no. 401 602**	Fastening torque for M5 screw: 4.5 Nm	**G-Series** GP **R-Series** RP **R-Series V** RP5
	**Mounting clamp** **Part no. 403 508**	Material: Stainless steel 1.4301/1.4305 (AISI 304/303)	**E-Series** EP, EP2, EL, ER
	**Threaded flange M18×1.5-6g** **Part no. 404 874**	Material: Stainless steel 1.4305 (AISI 303)	**R-Series** RF **R-Series V** RFV
	**Threaded flange ¾"-16 UNF-3A** **Part no. 404 875**	Material: Stainless steel 1.4305 (AISI 303)	**R-Series** RF **R-Series V** RFV

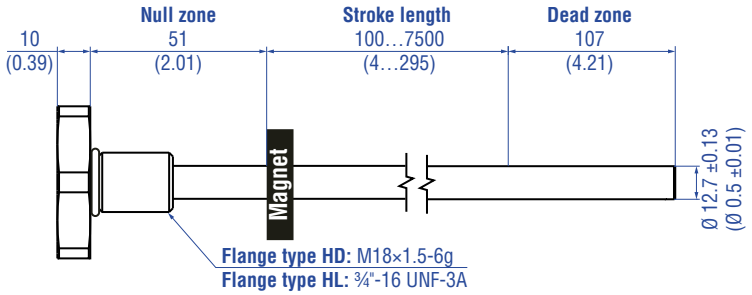
Controlling design dimensions are in millimeters and measurements in ( ) are in inches

Photo/Drawing	Name & part number	Description	Series & design
	**Hex jam nut ¾"-16 UNF-3A** **Part no. 500 015**	Material: Steel, zinc plated	**E-Series** EH, ET (rod) **G-Series** GH, GT **GB-Series** GB **R-Series** RH, RD4, RT4, RF **R-Series V** RH5, RDV, RFV **T-Series** TH (standard), TH (SIL)
	**Hex jam nut M18×1.5-6g** **Part no. 500 018**	Material: Steel, zinc plated	**E-Series** EH, ET (rod) **G-Series** GH, GT **GB-Series** GB **R-Series** RH, RD4, RT4, RF **R-Series V** RH5, RDV, RFV **T-Series** TH (standard), TH (SIL)
	**Fixing clip** **Part no. 561 481**	Application: Used to secure sensor rods (Ø 10 mm (Ø 0.39 in.)) when using an U-magnet or block magnet Material: Brass, non-magnetic	**E-Series** EH, ET (rod), EE **G-Series** GH, GT, GTE **GB-Series** GB **R-Series** RH, RD4, RT4 **R-Series V** RH5, RDV **T-Series** TH (standard), TH (SIL)
	**Adapter plate** **Part no. 255198**	Adapter plate for mounting and sealing an RFV-B as replacement for an RF-C. Order the RFV-B with the addition H003	**R-Series V** RFV

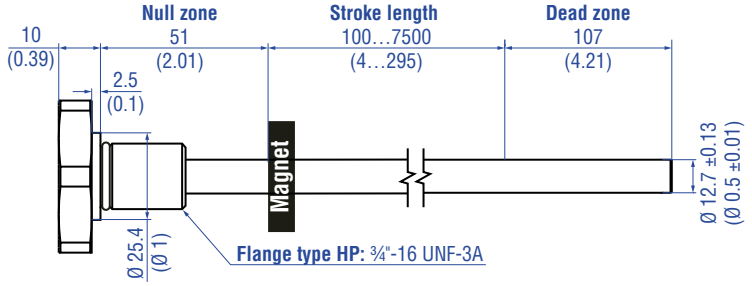
Controlling design dimensions are in millimeters and measurements in ( ) are in inches

4.2 Optional pressure rods for R-Series V RFV

HD (with threaded flange M18×1.5-6g)/HL (with threaded flange ¾"-16 UNF-3A) optional sensor rod



HP (with threaded flange ¾"-16 UNF-3A with raised-face) optional sensor rod

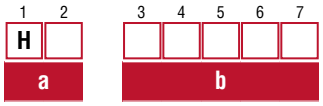


Controlling design dimensions are in millimeters and measurements in ( ) are in inches

TECHNICAL DATA

Operating conditions	
Operating pressure	350 bar (5076 psi)/700 bar (10153 psi) peak (at 10×1 min) for sensor rod
Design / Material	
Sensor flange	Stainless steel 1.4305 (AISI 303)
Sensor rod	Stainless steel 1.4301 (AISI 304)
Stroke length	100…7500 mm (4…295 in.)

ORDER CODE



a	Design
H D	Threaded flange M18×1.5-6g
H L	Threaded flange ¾"-16 UNF-3A
H P	Threaded flange ¾"-16 UNF-3A with raised-face

b	Stroke length
X X X X M	0100…7500 mm

Standard stroke length (mm)	Ordering steps
100 … 1000 mm	50 mm
1000 … 5000 mm	100 mm
5000 … 7500 mm	250 mm

X X X X U	001.0…295.0 in.

Standard stroke length (in.)	Ordering steps
4 … 40 in.	2 in.
40 … 197 in.	4 in.
197 … 295 in.	10 in.

DELIVERY

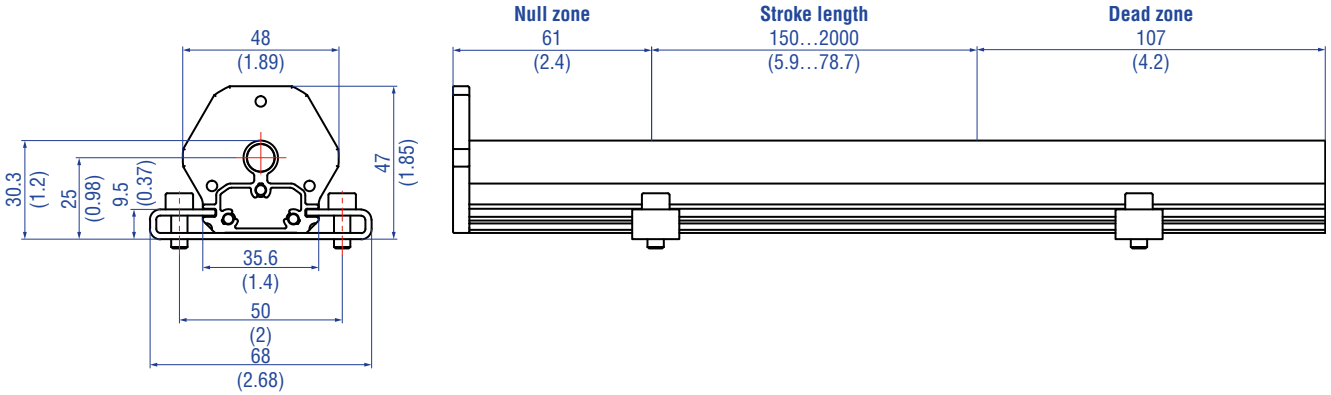
- RFV pressure rod
- O-ring

4.3 Optional profile for R-Series V RFV

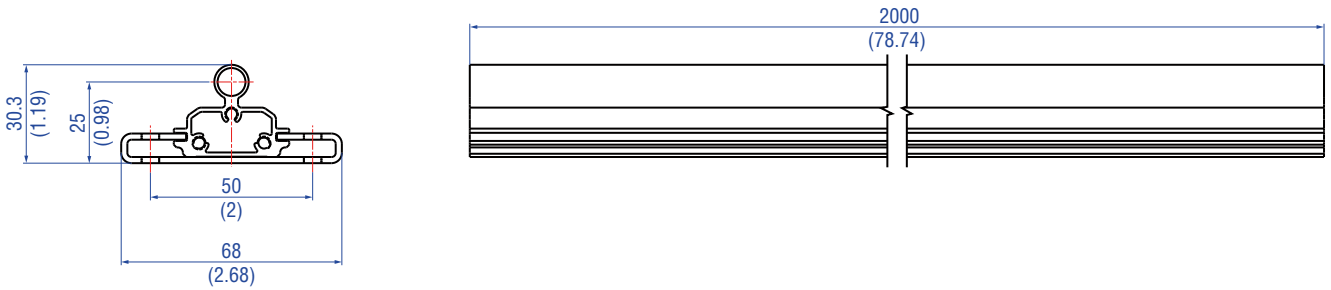
The HFP consists of a basic profile. Depending on the required stroke length, different extension profiles can be added to this profile so that a total stroke length of 150…20,000 mm (6…787 in.) is possible.
The profiles are put together on site and sealed with an end cap. The HFP can be used with the following magnets:

- U-magnet OD33 (part no. 251 416-2), see chapter 1.2 on page 6
- U-magnet (part no. 252 185), see chapter 1.2 on page 6
- Block magnet K (part no. 251 298-2), see chapter 1.4 on page 9
- Block magnet L (part no. 403 448), see chapter 1.4 on page 9

HFP base profile



HFP extension profile (0…9 pieces, depending on ordered stroke length)



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

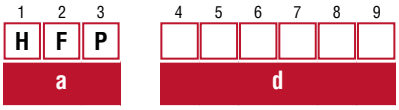
TECHNICAL DATA

Operating conditions	
Ingress protection	IP30
Design / Material	
Sensor profile	Aluminum
Stroke length	HFP base profile: 150…2000 mm (6…78.74 in.) HFP extension profile: 2000 mm (78.74 in.)

NOTICE

Contact Temposonics if you would like to use the HFP for the R-Series 2004 RF.

ORDER CODE



a	Design
H F P	Profile

b	Stroke length
X X X X X M	00150…20000 mm

Standard 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.

Standard stroke length (in.)	Ordering steps
6 … 40 in.	2 in.
40 … 197 in.	4 in.
197 … 393 in.	10 in.
393 … 590 in.	19 in.
590 … 787 in.	39 in.

DELIVERY

- 1 × base profile incl. accessories (5 × mounting clamps + 1 × end cap) (Part no. 255199Mxxxx)
- Number of extension profiles depending on ordered stroke length (Part no. 403617M2000)
- Number of accessories for extension profile depending on ordered stroke length (5 × mounting clamps, 4 × connecting pins + 1 × gasket) (Part no. 254300)

5. Connectors

5.1 Overview

E-Series

Analog – D34
with 1 × M12 male connector

Mating connector

M12 A-coded female connector
(4 pin/5 pin), straight
Part no. 370 677

M12 A-coded female connector
(5 pin), angled
Part no. 370 678

CANbus – D34
with 1 × M12 male connector

Mating connector

M12 A-coded female connector
(4 pin/5 pin), straight
Part no. 370 677

M12 A-coded female connector
(5 pin), angled
Part no. 370 678

IO-Link – D44
with 1 × M12 male connector

Mating connector

M12 A-coded female connector
(4 pin/5 pin), straight
Part no. 370 677

M12 A-coded female connector
(5 pin), angled
Part no. 370 678

Start/Stop – D84
with 1 × M12 male connector

Mating connector

M12 A-coded female connector
(8 pin), straight
Part no. 370 694

M12 A-coded female connector
(8 pin), angled
Part no. 370 699

SSI – D84
with 1 × M12 male connector

Mating connector

M12 A-coded female connector
(8 pin), straight
Part no. 370 694

M12 A-coded female connector
(8 pin), angled
Part no. 370 699

G-Series

Analog – D60
with 1 × M16 male connector

Mating connector

M16 female connector (6 pin), straight
Part no. 370 423

M16 female connector (6 pin), angled
Part no. 370 460

Start/Stop – D60
with 1 × M16 male connector

Mating connector

M16 female connector (6 pin), straight
Part no. 370 423

M16 female connector (6 pin), angled
Part no. 370 460

GB-Series

Analog – D34
with 1 × M12 male connector

Mating connector

M12 A-coded female connector
(4 pin/5 pin), straight
Part no. 370 677

M12 A-coded female connector
(5 pin), angled
Part no. 370 678

Analog – D60
with 1 × M16 male connector

Mating connector

M16 female connector (6 pin), straight
Part no. 370 423

M16 female connector (6 pin), angled
Part no. 370 460

SSI – D70
with 1 × M16 male connector

Mating connector

M16 female connector (7 pin), straight
Part no. 370 624

M16 female connector (7 pin), angled
Part no. 560 779

SSI – D84
with 1 × M12 male connector

Mating connector

M12 A-coded female connector
(8 pin), straight
Part no. 370 694

M12 A-coded female connector
(8 pin), angled
Part no. 370 699

R-Series

Analog – D60
with 1 × M16 male connector

Mating connector

M16 female connector (6 pin), straight
Part no. 370 423

M16 female connector (6 pin), angled
Part no. 370 460

CANbus – D54
*with 1 × M8 male connector,
1 × M12 female connector &
1 × M12 male connector*

Mating connector

Power connector M8 female
(4 pin), straight
Part no. 370 504

Power connector M8 female
(4 pin), angled
Part no. 560 886

Signal connector M12 A-coded male
connector (5 pin), straight
Part no. 561 665

Signal connector M12 A-coded female
(5 pin), straight
Part no. 370 677

Signal connector M12 A-coded female
connector (5 pin), angled
Part no. 370 678

CANbus – D60
with 1 × M16 male connector

Mating connector

M16 female connector (6 pin), straight
Part no. 370 423

M16 female connector (6 pin), angled
Part no. 370 460

CANbus – D62
with 2 × M16 male connector

Mating connector

M16 female connector (6 pin), straight
Part no. 370 423

M16 female connector (6 pin), angled
Part no. 370 460

EtherCAT® – D56
*with 1 × M8 male connector &
2 × M12 female connector*

Mating connector

Power connector M8 female
(4 pin), straight
Part no. 370 504

Power connector M8 female
(4 pin), angled
Part no. 560 886

Signal connector M12 D-coded male
(4 pin), straight
Part no. 370 523

R-Series

EtherNet/IP™ – D56
*with 1 × M8 male connector &
2 × M12 female connector*

Mating connector

Power connector M8 female
(4 pin), straight
Part no. 370 504

Power connector M8 female
(4 pin), angled
Part no. 560 886

Signal connector M12 D-coded male
(4 pin), straight
Part no. 370 523

POWERLINK – D56
*with 1 × M8 male connector &
1 × M12 female connector*

Mating connector

Power connector M8 female
(4 pin), straight
Part no. 370 504

Power connector M8 female
(4 pin), angled
Part no. 560 886

Signal connector M12 D-coded male
(4 pin), straight
Part no. 370 523

PROFIBUS – D53
*with 1 × M8 male connector,
1 × M12 female connector &
1 × M12 male connector*

Mating connector

Power connector M8 female
(4 pin), straight
Part no. 370 504

Power connector M8 female
(4 pin), angled
Part no. 560 886

Signal connector M12 B-coded male
connector (4 pin), straight
Part no. 560 884

Signal connector M12 B-coded
female connector (5 pin), angled
Part no. 370 514

Signal connector M12 B-coded male
connector (5 pin), angled
Part no. 370 515

Signal connector M12 B-coded female
connector (4 pin), straight
Part no. 560 885

Continued on the next page

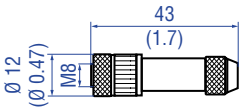
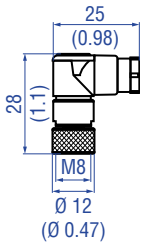
R-Series
PROFIBUS – D63 *with 1 × M16 female connector & 1 × M16 male connector*
Mating connector
M16 female connector (6 pin), straight **Part no. 370 423**
M16 female connector (6 pin), angled **Part no. 370 460**
M16 male connector (6 pin), straight **Part no. 370 427**
M16 male connector (6 pin), angled **Part no. 370 621**
PROFINET – D58 *with 1 × M12 female connector & 2 × M12 male connector*
Mating connector
Power connector M12 A-coded female (4 pin/5 pin), straight **Part no. 370 677**
Signal connector M12 D-coded male (4 pin), straight **Part no. 370 523**
SSI – D70 *with 1 × M16 male connector*
Mating connector
M16 female connector (7 pin), straight **Part no. 370 624**
M16 female connector (7 pin), angled **Part no. 560 779**

R-Series V
Analog – D34 *with 1 × M12 male connector*
Mating connector
M12 A-coded female connector (4 pin/5 pin), straight **Part no. 370 677**
M12 A-coded female connector (5 pin), angled **Part no. 370 678**
Analog – D60 *with 1 × M16 male connector*
Mating connector
M16 female connector (6 pin), straight **Part no. 370 423**
M16 female connector (6 pin), angled **Part no. 370 460**
EtherCAT® – D56 *with 1 × M8 male connector & 2 × M12 female connector*
Mating connector
Power connector M8 female (4 pin), straight **Part no. 370 504**
Power connector M8 female (4 pin), angled **Part no. 560 886**
Signal connector M12 D-coded male (4 pin), straight **Part no. 370 523**
EtherCAT® – D58 *with 1 × M12 female connector & 2 × M12 male connector*
Mating connector
Power connector M12 A-coded female (4 pin/5 pin), straight **Part no. 370 677**
Signal connector M12 D-coded male (4 pin), straight **Part no. 370 523**

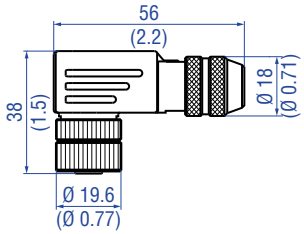
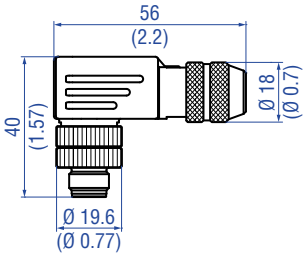
R-Series V
EtherNet/IP™ – D56 *with 1 × M8 male connector & 2 × M12 female connector*
Mating connector
Power connector M8 female (4 pin), straight **Part no. 370 504**
Power connector M8 female (4 pin), angled **Part no. 560 886**
Signal connector M12 D-coded male (4 pin), straight **Part no. 370 523**
EtherNet/IP™ – D58 *with 1 × M12 female connector & 2 × M12 male connector*
Mating connector
Power connector M12 A-coded female (4 pin/5 pin), straight **Part no. 370 677**
Signal connector M12 D-coded male (4 pin), straight **Part no. 370 523**
POWERLINK – D56 *with 1 × M8 male connector & 2 × M12 female connector*
Mating connector
Power connector M8 female (4 pin), straight **Part no. 370 504**
Power connector M8 female (4 pin), angled **Part no. 560 886**
Signal connector M12 D-coded male (4 pin), straight **Part no. 370 523**
POWERLINK – D58 *with 1 × M12 female connector & 2 × M12 male connector*
Mating connector
Power connector M12 A-coded female (4 pin/5 pin), straight **Part no. 370 677**
Signal connector M12 D-coded male (4 pin), straight **Part no. 370 523**

R-Series V
PROFINET – D56 *with 1 × M8 male connector & 2 × M12 female connector*
Mating connector
Power connector M8 female (4 pin), straight **Part no. 370 504**
Power connector M8 female (4 pin), angled **Part no. 560 886**
Signal connector M12 D-coded male (4 pin), straight **Part no. 370 523**
PROFINET – D58 *with 1 × M12 female connector & 2 × M12 male connector*
Mating connector
Power connector M12 A-coded female (4 pin/5 pin), straight **Part no. 370 677**
Signal connector M12 D-coded male (4 pin), straight **Part no. 370 523**
SSI – D70 *with 1 × M16 male connector*
Mating connector
M16 female connector (7 pin), straight **Part no. 370 624**
M16 female connector (7 pin), angled **Part no. 560 779**
SSI – D84 *with 1 × M12 male connector*
Mating connector
M12 A-coded female connector (8 pin), straight **Part no. 370 694**
M12 A-coded female connector (8 pin), angled **Part no. 370 699**

5.2 M8 connector

Drawing	Name & part number	Description	Series & output	
	**M8 female connector (4 pin), straight** **Part no. 370 504**	Material: CuZn nickel plated Termination: Solder Cable Ø: 3.5…5 mm (0.14…0.28 in.) Wire: 0.25 mm² Operating temperature: –40…+85 °C (–40…+185 °F) Ingress protection: IP67 (correctly fitted) Fastening torque: 0.5 Nm	**R-Series**	
			CANbus	D54
			EtherCAT®	D56
			EtherNet/IP™	D56
			POWERLINK	D56
			PROFIBUS	D53
			R-Series V	
			EtherCAT®	D56
			EtherNet/IP™	D56
			POWERLINK	D56
			PROFINET	D56
	**M8 female connector (4 pin), angled** **Part no. 560 886**	Material: PA Termination: Solder Cable Ø: 3.5…5 mm (0.14…0.28 in.) Wire: 0.25 mm² (AWG 24) Operating temperature: –40…+85 °C (–40…+185 °F) Ingress protection: IP67 (correctly fitted) Fastening torque: 0.5 Nm	**R-Series**	
			CANbus	D54
			EtherCAT®	D56
			EtherNet/IP™	D56
			POWERLINK	D56
			PROFIBUS	D53
			R-Series V	
			EtherCAT®	D56
			EtherNet/IP™	D56
			POWERLINK	D56
			PROFINET	D56

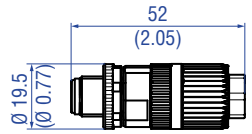
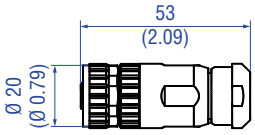
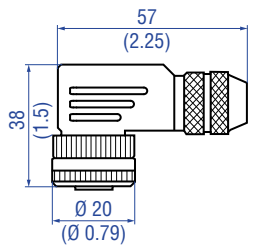
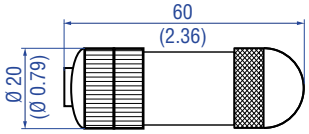
5.3 M12 connectors

Drawing	Name & part number	Description	Series & output	
	**M12 B-coded female connector** **(5 pin), angled** **Part no. 370 514**	Material: Zinc nickel plated Termination: Screw Contact insert: Silver plated Cable Ø: 6…8 mm (0.24…0.31 in.) Wire: 0.75 mm² (18 AWG) Operating temperature: –40…+85 °C (–40…+185 °F) Ingress protection: IP67 (correctly fitted) Fastening torque: 0.4 Nm	**R-Series**	
			PROFIBUS	D53
	**M12 B-coded male connector** **(5 pin), angled** **Part no. 370 515**	Material: Zinc nickel plated Termination: Screw Contact insert: Silver plated Cable Ø: 6…8 mm (0.24…0.31 in.) Wire: 0.75 mm² (18 AWG) Operating temperature: –40…+85 °C (–40…+185 °F) Ingress protection: IP67 (correctly fitted) Fastening torque: 0.4 Nm	**R-Series**	
			PROFIBUS	D53

NOTICE

Follow the manufacturer‘s mounting instructions.

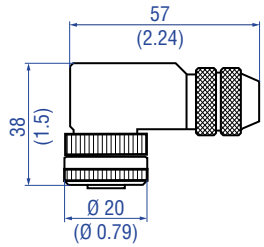
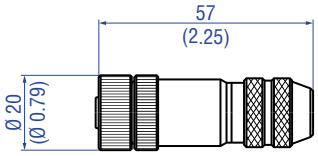
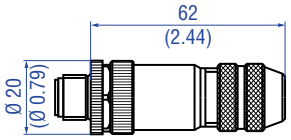
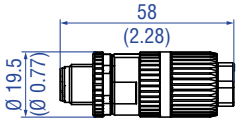
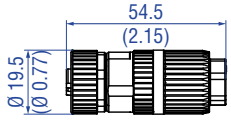
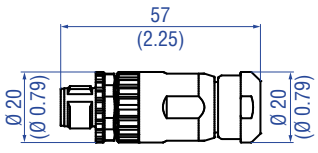
Controlling design dimensions are in millimeters and measurements in ( ) are in inches

Drawing	Name & part number	Description	Series & output	
	**M12 D-coded male connector (4 pin), straight** **Part no. 370 523**	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	**R-Series**	
			EtherCAT®	D56
			EtherNet/IP™	D56
			POWERLINK	D56
			PROFINET	D58
			R-Series V	
			EtherCAT®	D56, D58
			EtherNet/IP™	D56, D58
			POWERLINK	D56, D58
			PROFINET	D56, D58
	**M12 A-coded female connector (4 pin/5 pin), straight** **Part no. 370 677**	Material: GD-Zn, Ni Termination: Screw Contact insert: CuZn Cable Ø: 4…8 mm (0.16…0.31 in.) Wire: 1.5 mm² Operating temperature: –30…+85 °C (–22…+185 °F) Ingress protection: IP67 (correctly fitted) Fastening torque: 0.6 Nm	**E-Series**	
			Analog	D34
			CANbus	D34
			IO-Link	D44
			GB-Series	
			Analog	D34
			R-Series	
			CANbus	D54
			PROFINET	D58
			R-Series V	
			Analog	D34
			EtherCAT®	D58
			EtherNet/IP™	D58
			POWERLINK	D58
			PROFINET	D58
	**M12 A-coded female connector (5 pin), angled** **Part no. 370 678**	Material: GD-Zn, Ni Termination: Screw; max. 0.75 mm² Contact insert: CuZn Cable Ø: 5…8 mm (0.2…0.31 in.) Wire: 0.75 mm² (18 AWG) Operating temperature: –25…+85 °C (–13…+185 °F) Ingress protection: IP67 (correctly fitted) Fastening torque: 0.4 Nm	**E-Series**	
			Analog	D34
			CANbus	D34
			IO-Link	D44
			GB-Series	
			Analog	D34
			R-Series	
			CANbus	D54
			R-Series V	
			Analog	D34
	**M12 A-coded female connector (8 pin), straight** **Part no. 370 694**	Housing: GD-ZnAL Termination: Screw Contact insert: CuZn Cable Ø: 4…9 mm (0.16…0.35 in.) Wire: 0.75 mm² Operating temperature: –25…+90 °C (–13…+194 °F) Ingress protection: IP67 (correctly fitted) Fastening torque: 0.6 Nm	**E-Series**	
			Start/Stop	D84
			SSI	D84
			GB-Series	
			SSI	D84
			R-Series V	
			SSI	D84

NOTICE

Follow the manufacturer‘s mounting instructions.

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

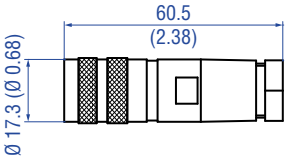
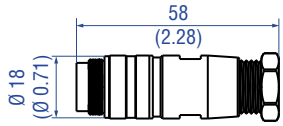
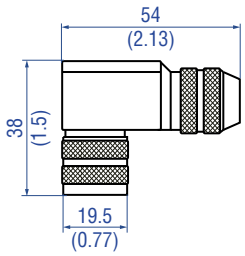
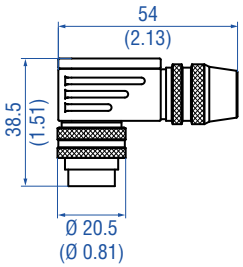
Drawing	Name & part number	Description	Series & output	
	**M12 A-coded female connector (8 pin), angled** **Part no. 370 699**	Housing: GD-ZnAL Termination: Screw Contact insert: CuZn Cable Ø: 6…8 mm (0.24…0.31 in.) Wire: 0.5 mm² Operating temperature: –25…+85 °C (–13…+185 °F) Ingress protection: IP67 (correctly fitted) Fastening torque: 0.6 Nm	**E-Series**	
			Start/Stop	D84
			SSI	D84
			GB-Series	
			SSI	D84
			R-Series V	
			SSI	D84
	**M12 B-coded female connector (5 pin), straight** **Part no. 370 766**	Material: CuZn Termination: Screw Contact insert: Au Cable Ø: 6…8 mm (0.24…0.31 in.) Wire: 0.75 mm² Operating temperature: –40…+85 °C (–40…+185 °F) Ingress protection: IP67 (correctly fitted) Fastening torque: 0.5 Nm	**R-Series**	
			PROFIBUS	D53
	**M12 B-coded male connector (5 pin), straight** **Part no. 370 809**	Material: CuZn Termination: Screw Contact insert: Au Cable Ø: 6…8 mm (0.24…0.31 in.) Wire: 0.75 mm² Operating temperature: –40…+85 °C (–40…+185 °F) Ingress protection: IP67 (correctly fitted) Fastening torque: 0.5 Nm	**R-Series**	
			PROFIBUS	D53
	**M12 B-coded male connector (4 pin), straight** **Part no. 560 884**	Material: Zinc nickel plated Termination: Insulation-displacement Contact insert: Gold plated Cable Ø: 4.5…8.8 mm (0.18…0.35 in.) Wire: 0.34 mm² (22 AWG) Operating temperature: –40…+85 °C (–40…+185 °F) Ingress protection: IP65/IP67 (correctly fitted) Number of contacts: 2 pin Fastening torque: 0.6 Nm	**R-Series**	
			PROFIBUS	D53
	**M12 B-coded female connector (4 pin), straight** **Part no. 560 885**	Material: Zinc nickel plated Termination: Insulation-displacement Contact insert: Gold plated Cable Ø: 4.5…8.8 mm (0.18…0.35 in.) Wire: 0.34 mm² (22 AWG) Operating temperature: –40…+85 °C (–40…+185 °F) Ingress protection: IP65/IP67 (correctly fitted) Number of contacts: 2 pin Fastening torque: 0.6 Nm	**R-Series**	
			PROFIBUS	D53
	**M12 A-coded male connector (5 pin), straight** **Part no. 561 665**	Housing: GD-Zn, Ni Termination: Screw Contact insert: CuZn Cable Ø: 4…8 mm (0.16…0.31 in.) Wire: 1.5 mm² Operating temperature: –30…+85 °C (–22…+185 °F) Ingress protection: IP67 (correctly fitted) Fastening torque: 0.6 Nm	**E-Series**	
			CANbus	D34
			R-Series	
			CANbus	D54

NOTICE

Follow the manufacturer‘s mounting instructions.

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

5.4 M16 connectors

Drawing	Name & part number	Description	Series & output	
	**M16 female connector (6 pin), straight** **Part no. 370 423**	Material: Zinc nickel plated Termination: Solder Cable Ø: 6…8 mm (0.24…0.31 in.) Operating temperature: –40…+100 °C (–40…+212 °F) Ingress protection: IP65/IP67 (correctly fitted) Fastening torque: 0.6 Nm	**G-Series**	
			Analog	D60
			Start/Stop	D60
			GB-Series	
			Analog	D60
			R-Series	
			Analog	D60
			CANbus	D60, D62
			PROFIBUS	D63
			R-Series V	
			Analog	D60
	**M16 male connector (6 pin), straight** **Part no. 370 427**	Material: Zinc nickel plated Termination: Solder Contact insert: Silver plated Cable clamp: PG9 Cable Ø: 6…8 mm (0.24…0.31 in.) Operating temperature: –40…+100 °C (–40…+212 °F) Ingress protection: IP65/IP67 (correctly fitted)	**R-Series**	
			PROFIBUS	D63
	**M16 female connector (6 pin), angled** **Part no. 370 460**	Material: Zinc nickel plated Termination: Solder Cable Ø: 6…8 mm (0.24…0.31 in.) Wire: 0.75 mm² (20 AWG) Operating temperature: –40…+95 °C (–40…+203 °F) Ingress protection: IP67 (correctly fitted) Fastening torque: 0.6 Nm	**G-Series**	
			Analog	D60
			Start/Stop	D60
			GB-Series	
			Analog	D60
			R-Series	
			Analog	D60
			CANbus	D60, D62
			PROFIBUS	D63
			R-Series V	
			Analog	D60
	**M16 male connector (6 pin), angled** **Part no. 370 621**	Material: Brass nickel plated Termination: Solder Contact insert: Silver plated Cable Ø: 6…8 mm (0.24…0.31 in.) Operating temperature: –30…+95 °C (–22…+203 °F) Ingress protection: IP67 (correctly fitted)	**R-Series**	
			PROFIBUS	D63

NOTICE

Follow the manufacturer‘s mounting instructions.

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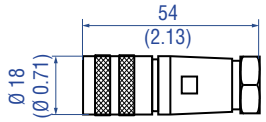
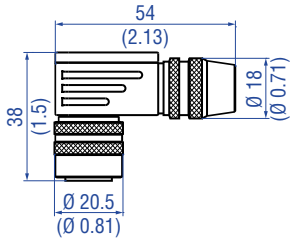
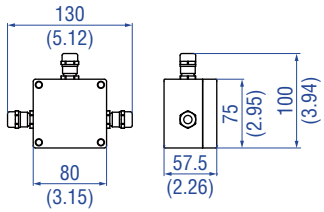
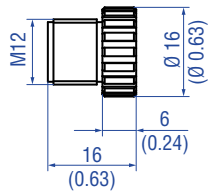
Drawing	Name & part number	Description	Series & output	
	**M16 female connector (7 pin), straight** **Part no. 370 624**	Material: Zinc nickel plated Termination: Solder Contact insert: Silver plated Cable clamp: PG9 Cable Ø: 6…8 mm (0.24…0.31 in.) Operating temperature: –40…+100 °C (–40…+212 °F) Ingress protection: IP65/IP67 (correctly fitted) Fastening torque: 0.7 Nm	**GB-Series**	
			SSI	D70
			R-Series	
			SSI	D70
			R-Series V	
			SSI	D70
	**M16 female connector (7 pin), angled** **Part no. 560 779**	Material: Zinc nickel plated Termination: Solder Contact insert: Silver plated Cable Ø: 6…8 mm (0.24…0.31 in.) Wire: 0.75 mm² (20 AWG) Operating temperature: –40…+95 °C (–40…+203 °F) Ingress protection: IP67 (correctly fitted) Fastening torque: 0.5 Nm	**GB-Series**	
			SSI	D70
			R-Series	
			SSI	D70
			R-Series V	
			SSI	D70

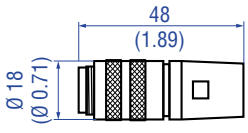
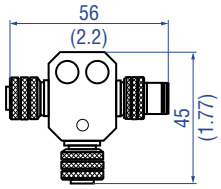
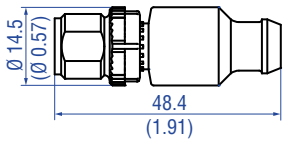
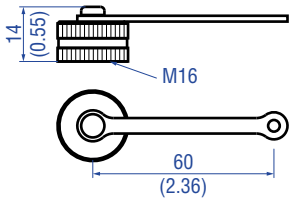
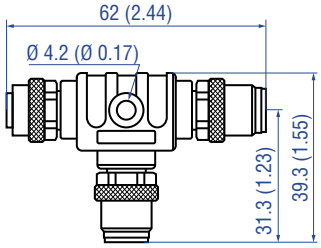
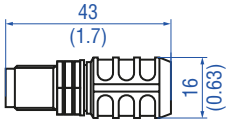
5.5 Connection accessories

Drawing	Name & part number	Description	Series & output	
	**PROFIBUS filter box, M16 (6 pin)** **Part no. 252 916**	EMC conformal feeding of +24 VDC operating voltage into the Profibus-DP hybrid cable.	**R-Series**	
			PROFIBUS	D63
	**M12 connector end cap** **Part no. 370 537**	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	**R-Series**	
			CANbus	D54
			EtherCAT®	D56
			EtherNet/IP™	D56
			POWERLINK	D56
			PROFIBUS	D53
			PROFINET	D58
			R-Series V	
			EtherCAT®	D56, D58
			EtherNet/IP™	D56, D58
			POWERLINK	D56, D58
			PROFINET	D56, D58

NOTICE

Follow the manufacturer‘s mounting instructions.

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

Drawing	Name & part number	Description	Series & output
	**Active M16 male bus terminator (6 pin)** **Part no. 370 620**	Material: Zinc nickel plated Contact insert: Silver plated Operating temperature: –40…+75 °C (–40…+167 °F) Ingress protection: IP67 (correctly fitted)	**R-Series** PROFIBUS D63
	**M12 A-coded T connector (5 pin)** **Part no. 370 691**	Selfcuring coupling nut 2 × female connector 1 × male connector Feature: Shielded Ingress protection: IP67 (correctly fitted)	**E-Series** CANbus D34 **R-Series** CANbus D54
	**Passive M12 A-coded male bus terminator (5 pin)** **Part no. 370 700**	Material: PUR Termination: Screw Contact insert: Au Operating temperature: –25…+85 °C (–13…+121 °F) Ingress protection: IP68 (correctly fitted)	**E-Series** CANbus D34 **R-Series** CANbus D54
	**M16 connector end cap** **Part no. 403 290**	Material: Brass, nickel plated	**G-Series** Analog D60 Start/Stop D60 **GB-Series** SSI D70 **R-Series** Analog D60 CANbus D60, D62 PROFIBUS D63 SSI D70
	**M12 B-coded T connector (5 pin)** **Part no. 560 887**	Material: Zinc nickel plated Termination: Solder Contact insert: Silver plated Installation: Field installable Operating temperature: –30…+90 °C (–22…+130 °F) Ingress protection: IP67 (correctly fitted)	**R-Series** PROFIBUS D53
	**Active M12 B-coded male bus terminator (4 pin)** **Part no. 560 888**	Housing: PUR Termination: Screw Contact insert: Silver plated Operating temperature: –30…+90 °C (–22…+194 °F) Ingress protection: IP68 (correctly fitted)	**R-Series** PROFIBUS D53

NOTICE

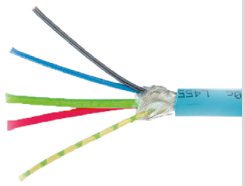
Follow the manufacturer‘s mounting instructions.

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

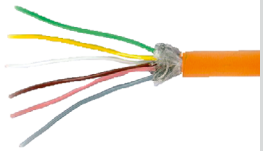
6. Cables

A wide range of cable variations is available for Temposonics sensors. In addition to the listed cables with pig-tail for self-use, it is also possible to customize the cables for the listed outputs individually with the cable configurator (chapter 7). For some sensor models you can configure the sensor with cable outlet. For this direct mounting of the cable on the sensor, the letter for the designation of the cable outlet in the order code is given in the following list. More information can be found in the corresponding data sheets or operation manuals of the respective sensor.

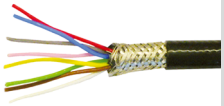
6.1 Pigtailed cables

Photo	Name & part number	Description	Series & output	
	**PVC cable** **Part no. 530 032**	Material: PVC jacket; gray Features: Twisted pair, shielded, flexible Cable Ø: 6 mm (0.23 in.) Cross section: 3 × 2 × 0.14 mm² Bending radius: 10 × D (fixed installation) Operating temperature: –40…+105 °C (–40…+221 °F)	**E-Series**	
			Analog	D34
			Start/Stop	D84
			SSI	D84
			G-Series	
			Analog	D60, RXX
			Start/Stop	D60, RXX
			GB-Series	
			Analog	D34, D60
			SSI	D70, D84
			R-Series	
			Analog	D60, RXX
			SSI	D70, RXX
			R-Series V	
			Analog	D34, D60, EXX, RXX
			SSI	D70, D84, EXX, RXX
	**PVC cable** **Part no. 530 040**	Material: PVC jacket; petrol Features: Hybrid cable (PROFIBUS and power supply feed in), flexible Cable Ø: 8 mm (0.31 in.) Cross section: 1 × 2 × 0.65 mm² 3 × 1 × 0.75 mm² Bending radius: 5 × D (fixed installation) Operating temperature: –30…+80 °C (–22…+176 °F)	**R-Series**	
			PROFIBUS	D63

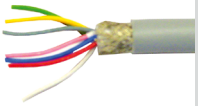
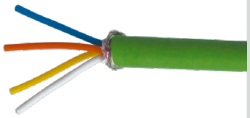
Color of connectors and cable jacket may change. Colors of the cores and technical properties remain unchanged.

Photo	Name & part number	Description	Series & output	
	**PUR cable** **Part no. 530 052**	Material: PUR jacket; orange Features: Twisted pair, shielded, highly flexible, halogen free, suitable for drag chains, mostly oil & flame resistant Cable Ø: 6.4 mm (0.25 in.) Cross section: 3 × 2 × 0.25 mm² Bending radius: 5 × D (fixed installation) Operating temperature: –30…+80 °C (–22…+176 °F)	**E-Series**	
			Analog	D34
			CANbus	D34
			Start/Stop	D84
			SSI	D84
			G-Series	
			Analog	D60, HXX
			Start/Stop	D60, HXX
			GB-Series	
			Analog	D34, D60, HXX
			SSI	D70, D84, HXX
			R-Series	
			Analog	D60
			CAN	D60, D62
			SSI	D70, HXX
			R-Series V	
			Analog	D34, D60, HXX, LXX
			SSI	D70, D84, HXX, LXX
	**PVC cable** **Part no. 530 108**	Material: PVC jacket; gray Features: Shielded, flexible, mostly flame resistant Cable Ø: 4.9 mm (0.19 in.) Cross section: 3 × 0.34 mm² Bending radius: 5 × D (fixed installation) Operating temperature: –30…+80 °C (–22…+176 °F)	**R-Series**	
			CANbus	D54
			EtherCAT®	D56
			EtherNet/IP™	D56
			PROFIBUS	D53, AXX
			PROFINET	D58
			POWERLINK	D56
			R-Series V	
			EtherCAT®	D56, D58
			EtherNet/IP™	D56, D58
			POWERLINK	D56, D58
			PROFINET	D56, D58
	**PUR cable** **Part no. 530 109**	Material: PUR jacket; violet Features: Highly flexible, halogen free, suitable for drag chains, mostly oil & flame restistant Cable Ø: 8 mm (0.31 in.) Cross section: 1 × 2 × 0.25 mm² Bending radius: 65 mm Operating temperature: –30…+70 °C (–22…+158 °F)	**R-Series**	
			PROFIBUS	D53, AXX

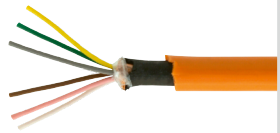
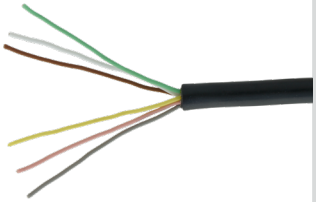
Color of connectors and cable jacket may change. Colors of the cores and technical properties remain unchanged.

Photo	Name & part number	Description	Series & output	
	**FEP cable** **Part no. 530 112**	Material: FEP jacket; black Features: Twisted pair, shielded, flexible, high thermal resistance, mostly oil & acid resistant Cable Ø: 7.6 mm (0.3 in.) Cross section: 4 × 2 × 0.25 mm² Bending radius: 8 – 10 × D (fixed installation) Operating temperature: –100…+180 °C (–148…+356 °F)	**E-Series**	
			Analog	D34
			Start/Stop	D84
			CANbus	D34
			SSI	D84
			G-Series	
			Analog	D60, TXX
			Start/Stop	D60, TXX
			GB-Series	
			Analog	D34, D60, TXX
			SSI	D70, D84, TXX
			R-Series	
			Analog	D60, TXX
			CANbus	D54, D60, D62, TXX
			SSI	D70, TXX
			R-Series V	
			Analog	D34, D60, TXX
			SSI	D70, D84, TXX
	**Silicone cable** **Part no. 530 113**	Material: Silicone jacket; red Features: Twisted pair, shielded, highly flexible, halogen free, high thermical resistance Cable Ø: 7.2 mm (0.28 in.) Cross section: 3 × 2 × 0.25 mm² Bending radius: 5 × D (fixed installation) Operating temperature: –50…+180 °C (–58…+356 °F)	**GB-Series**	
			Analog	D34, D60, VXX
			SSI	D70, D84, VXX
			R-Series	
			SSI	D70, VXX
			R-Series V	
			SSI	D70, D84
	**PUR cable** **Part no. 530 114**	Material: PUR jacket; black Features: Highly flexible, mostly oil & flame resistant Cable Ø: 5.9 mm (0.23 in.) Cross section: 3 × 2 × 0.14 mm² Bending radius: 4 × D (fixed installation) Operating temperature: –40…+80 °C (–40…+176 °F)	**G-Series**	
			Analog	D60, SXX

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

Photo	Name & part number	Description	Series & output	
	**PUR cable** **Part no. 530 116**	Material: PUR jacket; gray Features: Shielded, highly flexible, longitudinally watertight, halogen free Cable Ø: 8 mm (0.31 in.) Cross section: 8 × 0.25 mm² Bending radius: 10 × D Operating temperature: –30…+90 °C (–22…+194 °F)	**E-Series**	
			Analog	D34
			Start/Stop	D84
			CANbus	D34
			SSI	D84
			G-Series	
			Analog	D60, WXX
			Start/Stop	D60, WXX
			GB-Series	
			Analog	D34, D60
			SSI	D70, D84
			R-Series	
			Analog	D60, WXX
			CANbus	D54, D60, D62
			SSI	D70, WXX
			R-Series V	
			SSI	D70, D84
	**PUR cable** **Part no. 530 125**	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 mm² (22 AWG) Bending radius: 5 × D (fixed installation) Operating temperature: –20…+60 °C (–4…+140 °F)	**R-Series**	
			EtherCAT®	D56
			EtherNet/IP™	D56
			POWERLINK	D56
			PROFINET	D58
			R-Series V	
			EtherCAT®	D56, D58
			EtherNet/IP™	D56, D58
			POWERLINK	D56, D58
			PROFINET	D56, D58
	**PUR cable** **Part no. 530 154**	Material: PUR jacket; purple Features: Flexible, halogen free, mostly oil resistant Cable Ø: 7.4 mm (0.29 in.) Cross section: 2 × 2 × 0.34 mm² Bending radius: 10 × D Operation temperature: –40…+80 °C (–40…+176 °F)	**R-Series**	
			CANbus	D54, D60, D62
	**FEP cable** **Part no. 530 157**	Material: FEP jacket; black Features: Twisted pair, shielded Cable Ø: 6.7 mm (0.26 in.) Cross section: 3 × 2 × 0.14 mm² Operating temperature: –100…+180 °C (–148…+356 °F)	**R-Series V**	
			Analog	D34, D60, GXX
			SSI	D70, D84, GXX

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

Photo	Name & part number	Description	Series & output	
	**PUR cable** **Part no. 530 175**	Material: PUR jacket; orange Features: Flexible, additional EMC protection Cable Ø: 6.5 mm (0.26 in.) Cross section: 6 × 0.14 mm² Bending radius: 10 × D (fixed installation) Operating temperature: –30…+90 °C (–22…+194 °F)	**E-Series**	
			CANbus	D34
			SSI	D84
			GB-Series	
			SSI	D70, D84
			R-Series	
			CANbus	D54, D60, D62, PXX
			SSI	D70, PXX
			R-Series V	
			Analog	D34, D60, BXX, PXX
			SSI	D70, D84, BXX, PXX
	**Silicone cable** **Part no. 530 176**	Material: Silicone jacket; black Features: Twisted pair, shielded Cable Ø: 6.3 mm (0.25 in.) Cross section: 3 × 2 × 0.14 mm² Bending radius: 7 × D (fixed installation) Operating temperature: –50…+150 °C (–58…+302 °F)	**R-Series V**	
			Analog	D34, D60, UXX
			SSI	D70, D84, UXX

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

6.2 Cable sets

Cable with M16 male connector (6 pin), straight – M12 A-coded female connector (5 pin), straight
Part no. 254 206

For E-Series with analog output (V01, V03, A01, A02)
Cable length: 300 mm (11.81 in.)

Series & output	
E-Series	
Analog	D34

Wiring

M16 male connector (6 pin)	Pin		Pin	M12 A-coded female connector (5 pin)
	5	↔	1	
	1	↔	2	
	6	↔	3	
	3	↔	4	
	2	↔	5	
	4			

Cable with M16 male connector (6 pin), straight – M12 A-coded female connector (8 pin), straight
Part no. 254 207

For E-Series with Start/Stop output
Cable length: 300 mm (11.81 in.)

Series & output	
E-Series	
Start/Stop	D84

Wiring

M16 male connector (6 pin)	Pin		Pin	M12 A-coded female connector (8 pin)
	3	↔	1	
	4	↔	2	
	2	↔	3	
	1	↔	4	
	–	↔	5	
	–	↔	6	
	5	↔	7	
	6	↔	8	

Cable with M16 male connector (6 pin), straight – M12 A-coded female connector (5 pin), straight
Part no. 254 270

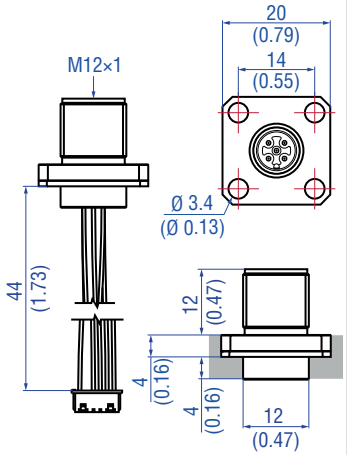
For E-Series with analog output (A11)
Cable length: 300 mm (11.81 in.)

Series & output	
E-Series	
Analog	D34

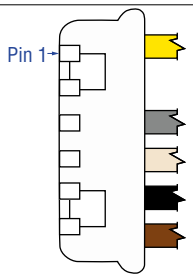
Wiring

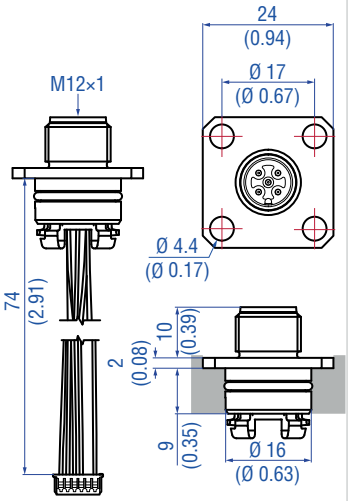
M16 male connector (6 pin)	Pin		Pin	M12 A-coded female connector (5 pin)
	5	↔	1	
	1	↔	2	
	3			
	6	↔	3	
	–	↔	4	
	2	↔	5	
	4			

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

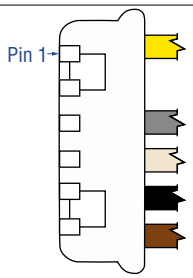
Photo/Drawing	Name & part number	Description	Series & output
	**Cable with PicoBlade™ male connector (5 pin), straight – M12 A-coded male connector (5 pin) with flange** **Part no. 254 256**	Operating temperature: –40…+80 °C (–40…+176 °F)	**E-Series** Analog M11, M31, M61

Wiring

PicoBlade™ connector (6 pin)	Pin		Pin	M12 A-coded male connector (5 pin)
	1	↔	4	
	–	↔	–	
	3	↔	2	
	4	↔	3	
	5	↔	5	
	6	↔	1	

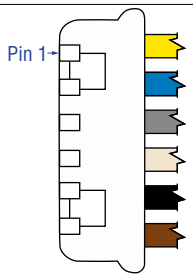
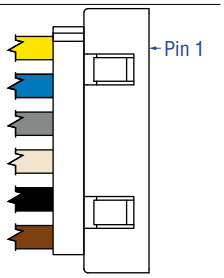
Photo/Drawing	Name & part number	Description	Series & output
	**Cable with PicoBlade™ male connector (6 pin), straight – M12 A-coded male connector (5 pin) with flange** **Part no. 254 560**	See technical bulletin “Connector system M12 for Sensor E-Series Embedded” (document part no.: 551758) for further information	**E-Series** Analog M11, M31, M61

Wiring

PicoBlade™ male connector (6 pin)	Pin		Pin	M12 A-coded male connector (5 pin)
	1	↔	4	
	–	↔	–	
	3	↔	2	
	4	↔	3	
	5	↔	5	
	6	↔	1	

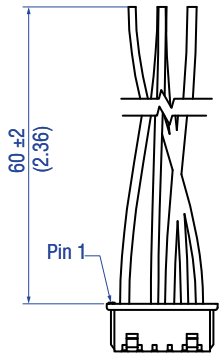
Photo/Drawing	Name & part number	Description	Series & output
	**Extension cable, PicoBlade™ male connector (5 pin), straight – PicoBlade™ female connector (5 pin), straight** **140 mm Part no. 254 642-1** **340 mm Part no. 254 642-2** **640 mm Part no. 254 642-3**	Operating temperature: –40…+80 °C (–40…+176 °F)	**E-Series** Analog M11, M31, M61

Wiring

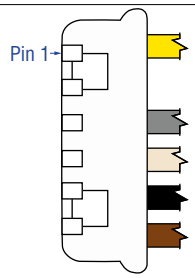
PicoBlade™ male connector (6 pin)	Pin		Pin	PicoBlade™ female connector (6 pin)
	1	↔	1	
	2	↔	2	
	3	↔	3	
	4	↔	4	
	5	↔	5	
	6	↔	6	

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

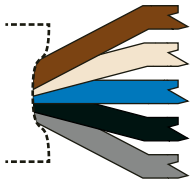
Color of connectors and cable jacket may change. Colors of the cores and technical properties remain unchanged.

Photo/Drawing	Name & part number	Description	Series & output
	**Extension cable, PicoBlade™ male connector (5 pin), straight – pigtail** **Part no. 254 266**	Operating temperature: –40…+80 °C (–40…+176 °F)	**E-Series** Analog M11, M31, M61
	**Cable with M12 A-coded female connector (5 pin), straight – pigtail** **Part no. 370 673**	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)	**E-Series** Analog D34 CANbus D34 IO-Link D44 **R-Series V** Analog D34 EtherCAT® D58 EtherNet/IP™ D58 POWERLINK D58 PROFINET D58
	**Cable with M12 A-coded female connector (8 pin), straight – pigtail** **Part no. 370 674** *Consider cable 370 789.* *The additional feature "twisted pair" minimizes interference from external sources.*	Material: PUR jacket; black Features: Shielded Cable length: 5 m (16.4 ft) Ingress protection: IP67/IP69K (correctly fitted) Operating temperature: –25…+80 °C (–13…+176 °F)	**E-Series** SSI D84 Start/Stop D84 **R-Series V** SSI D84

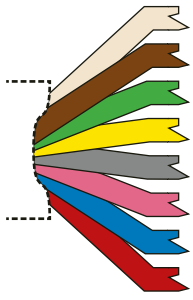
Wiring

PicoBlade™ male connector (6 pin)	Pin		Color	Wires
	1	↔	YE	
	–	↔	–	
	3	↔	GY	
	4	↔	WH	
	5	↔	BK	
	6	↔	BN	

Wiring

Wires	Color		Pin	M12 A-coded female connector (5 pin)
	BN	↔	1	
	WH	↔	2	
	BU	↔	3	
	BK	↔	4	
	GY	↔	5	

Wiring

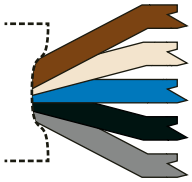
Wires	Color		Pin	M12 A-coded female connector (8 pin)
	WH	↔	1	
	BN	↔	2	
	GN	↔	3	
	YE	↔	4	
	GY	↔	5	
	PK	↔	6	
	BU	↔	7	
	RD	↔	8	

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.

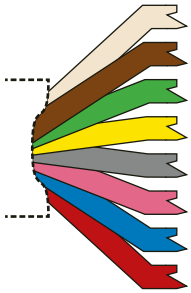
Photo/Drawing	Name & part number	Description	Series & output
	**Cable with M12 A-coded female connector (5 pin), angled – pigtail** **Part no. 370 675**	Material: PUR jacket; black Features: Shielded Cable length: 5 m (16.4 ft) Ingress protection: IP67 (correctly fitted) Operating temperature: –25…+80 °C (–13…+176 °F)	**E-Series** Analog D34 CANbus D34 IO-Link D44 **R-Series V** Analog D34 EtherCAT® D58 EtherNet/IP™ D58 POWERLINK D58 PROFINET D58

Wiring

Wires	Color		Pin	M12 A-coded female connector (5 pin)
	BN	↔	1	
	WH	↔	2	
	BU	↔	3	
	BK	↔	4	
	GY	↔	5	

Photo/Drawing	Name & part number	Description	Series & output
	**Cable with M12 A-coded female connector (8 pin), angled – pigtail** **Part no. 370 676** *Consider cable 370 821.* *The additional feature "twisted pair" minimizes interference from external sources.*	Cable: Shielded Cable length: 5 m (16.4 ft) Ingress protection: IP67 (correctly fitted)	**E-Series** SSI D84 Start/Stop D84 **R-Series V** SSI D84

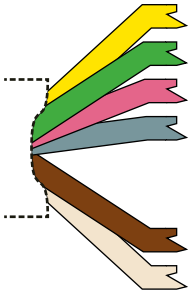
Wiring

Wires	Color		Pin	M12 A-coded female connector (8 pin)
	WH	↔	1	
	BN	↔	2	
	GN	↔	3	
	YE	↔	4	
	GY	↔	5	
	PK	↔	6	
	BU	↔	7	
	RD	↔	8	

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

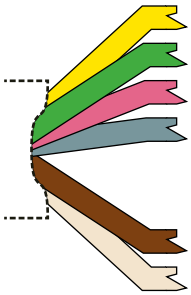
Photo/Drawing	Name & part number	Description	Series & output
	**Cable with M12 A-coded female connector (8 pin), straight – pigtail** **Part no. 370 789**	Material: PUR jacket; orange Features: Twisted pair, shielded Cable length: 5 m (16.4 ft) Ingress protection: IP67/IP69K (correctly fitted) Operating temperature: –25…+80 °C (–13…+176 °F)	**E-Series** SSI D84 Start/Stop D84 **R-Series V** SSI D84

Wiring

Wires	Color		Pin	M12 A-coded female connector (8 pin)
	YE	↔	1	
	GN	↔	2	
	PK	↔	3	
	GY	↔	4	
	–	↔	5	
	–	↔	6	
	BN	↔	7	
	WH	↔	8	

Photo/Drawing	Name & part number	Description	Series & output
	**Cable with M12 A-coded female connector (8 pin), angled – pigtail** **Part no. 370 821**	Material: PUR jacket; orange Features: Twisted pair, shielded Cable length: 5 m (16.4 ft) Ingress protection: IP67/IP69K (correctly fitted) Operating temperature: –25…+80 °C (–13…+176 °F)	**E-Series** SSI D84 Start/Stop D84 **R-Series V** SSI D84

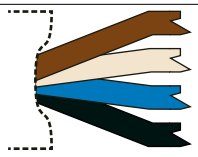
Wiring

Wires	Color		Pin	M12 A-coded female connector (8 pin)
	YE	↔	1	
	GN	↔	2	
	PK	↔	3	
	GY	↔	4	
	–	↔	5	
	–	↔	6	
	BN	↔	7	
	WH	↔	8	

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

Photo/Drawing	Name & part number	Description	Series & output	
	**Cable with M12 D-coded male connector (4 pin), straight – M12 D-coded, male connector (4 pin), straight** **Part no. 530 064**	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)	**R-Series**	
			EtherCAT®	D56
			EtherNet/IP™	D56
			POWERLINK	D56
			PROFINET	D58
			R-Series V	
			EtherCAT®	D56, D58
			EtherNet/IP™	D56, D58
			POWERLINK	D56, D58
			PROFINET	D56, D58
	**Cable with M12 D-coded male connector (4 pin), straight – RJ45 male connector, straight** **Part no. 530 065**	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)	**R-Series**	
			EtherCAT®	D56
			EtherNet/IP™	D56
			POWERLINK	D56
			PROFINET	D58
			R-Series V	
			EtherCAT®	D56, D58
			EtherNet/IP™	D56, D58
			POWERLINK	D56, D58
			PROFINET	D56, D58
	**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))**	Material: PUR jacket; gray Features: Shielded Cable Ø: 5 mm (0.2 in.) Operating temperature: –40…+90 °C (–40…+194 °F)	**R-Series**	
			EtherCAT®	D56
			EtherNet/IP™	D56
			POWERLINK	D56
			PROFIBUS	D53, AXX
			R-Series V	
			EtherCAT®	D56
			EtherNet/IP™	D56
			POWERLINK	D56
			PROFINET	D56

Wiring

Wires	Color		Pin
	BN	↔	1
	WH	↔	2
	BU	↔	3
	BK	↔	4

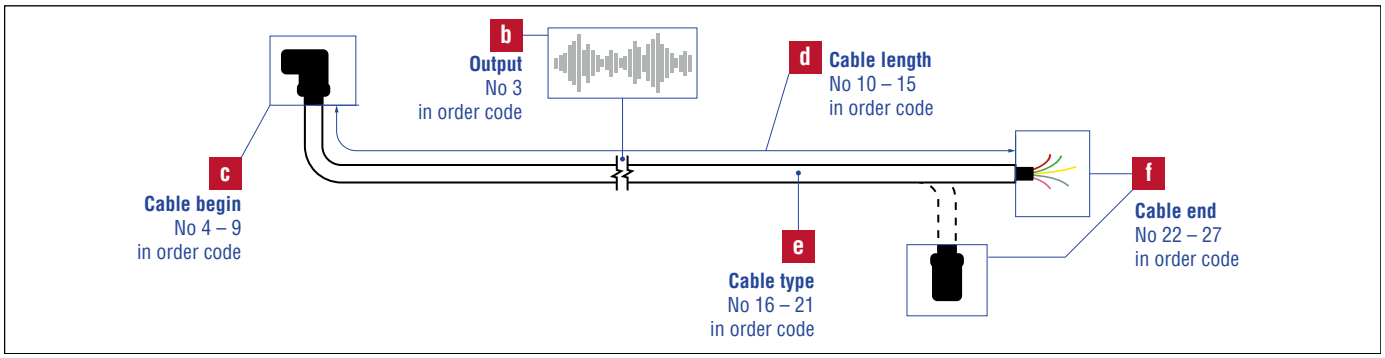
M8 female connector (4 pin)

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

7. Cable configurator

7.1 Structure

You can customize the cables via the cable configurator. Depending on the structure shown, the output, cable begin, cable length, cable type and cable end must be selected. The following pages list the outputs, the corresponding device plugs and sockets as well as cable types.



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
K	2																									
a		b	c						d						e						f					

optional

a	Name
K	2 Cable configurator

b	Output
A	Analog
C	CANbus
E	EtherCAT®, EtherNet/IP™, POWERLINK, PROFINET
P	PROFIBUS
R	Start/Stop
S	SSI
Z	Power supply (CANbus, EtherCAT®, EtherNet/IP™, POWERLINK, PROFIBUS, PROFINET)

c	Cable begin *see chapter 5 for detailed information*	
X X X X X X	• M8/M12/M16 • Male/female • Straight/angled

d	Cable length*	
X X X X C M	0030…9990 cm
X X X X F T	001.0…327.0 ft.

e	Cable type *see chapter 6 for detailed information*	
X X X X X X	• FEP cable • PUR cable • PVC cable • Silicone cable • TMPU cable

f	Cable end	
0	Open cable end
Optional - instead of pigtail cable end *(see chapter 5 for detailed information)*		
X X X X X X	• M12/M16 connector • Male/female • Straight/angled

*/ Length tolerance: –0/+1 % (minimum –0/+10 cm (0.3 ft.))

7.2 Analog

Example: *100 cm PUR cable (530 052) with M16 straight female connector (370 423) and open cable end for R-Series V Analog (D60):*
K2-A-370423-0100CM-530052-0

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
K	2	A																			0
a		b	c						d						e						f

a	Name
K 2	Cable configurator

b	Output
A	Analog

c	Cable begin			
M12 connector (D34) *see chapter 5.3 for detailed information*				
3 7 0 6 7 7	Straight	Female	E-Series GB-Series R-Series V	D34 D34 D34
3 7 0 6 7 8	Angled	Female	E-Series GB-Series R-Series V	D34 D34 D34
M16 connector (D60) *see chapter 5.4 for detailed information*				
3 7 0 4 2 3	Straight	Female	G-Series GB-Series R-Series R-Series V	D60 D60 D60 D60
3 7 0 4 6 0	Angled	Female	G-Series GB-Series R-Series R-Series V	D60 D60 D60 D60

d	Cable length*
X X X X C M	0030…9990 cm
X X X X F T	001.0…327.0 ft.

e	Cable type *see chapter 6 for detailed information*
5 3 0 0 3 2	PVC cable
5 3 0 0 5 2	PUR cable
5 3 0 1 1 2	FEP cable
5 3 0 1 1 6	PUR cable
5 3 0 1 5 7	FEP cable
5 3 0 1 7 6	Silicon cable

f	Cable end
0	Open cable end

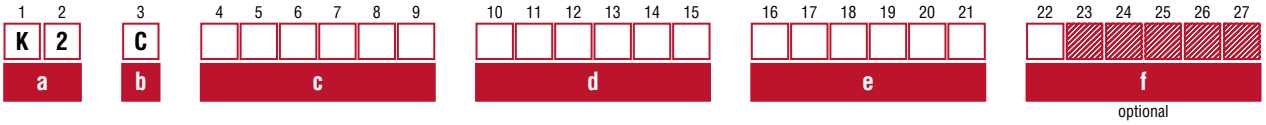
Wiring

Cable 530 032	Cable 530 052	Cable 530 112	Cable 530 116	Cable 530 157	Cable 530 176	M12 female connector	M16 female connector
Color	Color	Color	Color	Color	Color	Pin	Pin
GY	GY	GY	GY	GY	GY	2	1
PK	PK	PK	PK	PK	PK	5	2
YE	YE	YE	YE	YE	YE	4	3
GN	GN	GN	GN	GN	GN	Not connected	4
BN	BN	BN	BN	BN	BN	1	5
WH	WH	WH	WH	WH	WH	3	6
		BU	BU			Not connected	Not connected
		RD	RD			Not connected	Not connected

*/ Length tolerance: –0/+1 % (minimum –0/+10 cm (0.3 ft.))

7.3 CANbus

Example: *100 cm FEP cable (530 112) with M12 straight female connector (370 423) and open cable end for R-Series CANbus (D60):*
K2-C-370423-0100CM-530112-0



a	Name
K 2	Cable configurator

b	Output
C	CANbus

c	Cable begin			
M12 connector (D34/D54) *see chapter 5.3 for detailed information*				
3 7 0 6 7 7	Straight	Female	R-Series	D54
3 7 0 6 7 8	Angled	Female	R-Series	D54
M16 connector (D60/D62) *see chapter 5.4 for detailed information*				
3 7 0 4 2 3	Straight	Female	R-Series	D60, D62
3 7 0 4 6 0	Angled	Female	R-Series	D60, D62

d	Cable length*
X X X X C M	0030…9990 cm
X X X X F T	001.0…327.0 ft.

e	Cable type *see chapter 6 for detailed information*
5 3 0 0 5 2	PUR cable
5 3 0 1 1 2	FEP cable
5 3 0 1 1 6	PUR cable
5 3 0 1 7 5	PUR cable

f	Cable end			
0	Open cable end			
Optional – instead of pigtail cable end *(see chapter 5.4 for detailed information)*				
M16 (D60/D62)				
3 7 0 4 2 3	Straight	Female	R-Series	D60, D62
3 7 0 4 6 0	Angled	Female	R-Series	D60, D62

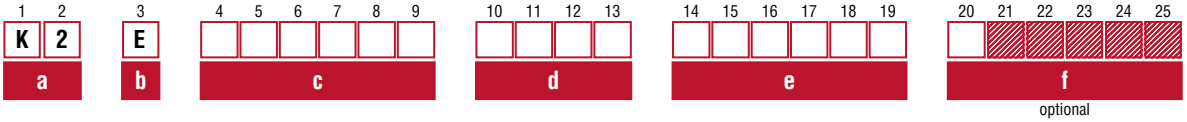
Wiring

Cable 530 052	Cable 530 112	Cable 530 116	Cable 530 175	M12 female connector	M16 female connector
Color	**Color**	**Color**	**Color**	**Pin**	**Pin**
GY	GY	GY	GY	5	1
PK	PK	PK	PK	4	2
YE	YE	YE	YE	Not connected	Not connected
GN	GN	GN	GN	Not connected	Not connected
BN	BN	BN	BN	2	5
WH	WH	WH	WH	3	6
	BU	BU		Not connected	Not connected
	RD	RD		Not connected	Not connected

*/ Length tolerance: –0/+1 % (minimum –0/+10 cm (0.3 ft.))

7.4 EtherCAT®/EtherNet/IP™/POWERLINK/PROFINET

Example: *100 cm PUR cable (530 125) with M12 straight male connector (370 523) and open cable end for R-Series V PROFINET (D58): K2-E-370523-0100CM-530125-0*



a	Name
K 2	Cable configurator

b	Output
E	EtherCAT®/EtherNet/IP™/POWERLINK/PROFINET

c	Cable begin		
M12 connector (D56/D58) *see chapter 5.3 for detailed information*			
3 7 0 5 2 3	Straight Male	R-Series EtherCAT®	D56
		R-Series EtherNet/IP™	D56
		R-Series PROFINET	D58
		R-Series POWERLINK	D56
		R-Series V EtherCAT®	D56
		R-Series V EtherCAT®	D58
		R-Series V EtherNet/IP™	D56
		R-Series V EtherNet/IP™	D58
		R-Series V POWERLINK	D56
		R-Series V POWERLINK	D58
		R-Series V PROFINET	D56
		R-Series V PROFINET	D58

d	Cable length*
X X X X C M	0030…9990 cm
X X X . X F T	001.0…327.0 ft.

e	Cable type *see chapter 6 for detailed information*
5 3 0 1 2 5	PUR cable

f	Cable end		
0	Open cable end		
Optional – instead of pigtail cable end			
M12 connector (D56/D58) *see chapter 5.3 for detailed information*			
3 7 0 5 2 3	Straight Male	R-Series EtherCAT®	D56
		R-Series EtherNet/IP™	D56
		R-Series POWERLINK	D56
		R-Series PROFINET	D58
		R-Series V EtherCAT®	D56
		R-Series V EtherCAT®	D58
		R-Series V EtherNet/IP™	D56
		R-Series V EtherNet/IP™	D58
		R-Series V POWERLINK	D56
		R-Series V POWERLINK	D58
		R-Series V PROFINET	D56
		R-Series V PROFINET	D58
RJ45 (D56/D58)			
3 7 0 6 4 9	Straight Male	R-Serie EtherCAT®	D56
		R-Serie EtherNet/IP™	D56
		R-Serie POWERLINK	D56
		R-Serie PROFINET	D58
		R-Serie V EtherCAT®	D56
		R-Serie V EtherCAT®	D58
		R-Serie V EtherNet/IP™	D56
		R-Serie V EtherNet/IP™	D58
		R-Serie V POWERLINK	D56
		R-Serie V POWERLINK	D58
		R-Serie V PROFINET	D56
		R-Serie V PROFINET	D58

Wiring	
Cable 530 125	**M12 male connector**
Color	**Pin**
YE	1
WH	2
OG	3
BU	4

*/ Length tolerance: –0/+1 % (minimum –0/+10 cm (0.3 ft.))

7.5 PROFIBUS

Example: *100 cm PVC cable (530 040) with M16 straight male connector (370 427) and open cable end for R-Series PROFIBUS (D63):*
K2-P-370427-0100CM-530040-0

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
K	2	P																								
a		b	c						d						e						f					

optional

a	Name
K2	Cable configurator

b	Output
P	PROFIBUS

c	Cable begin			
M12 connector (D53) *see chapter 5.3 for detailed information*				
56084	Straight	Male	R-Series	D53
37051	Angled	Male	R-Series	D53
56085	Straight	Female	R-Series	D53
37054	Angled	Female	R-Series	D53
M16 connector (D63) *see chapter 5.4 for detailed information*				
37042	Straight	Male	R-Series	D63
37061	Angled	Male	R-Series	D63
37043	Straight	Female	R-Series	D63
37046	Angled	Female	R-Series	D63

d	Cable length*	
XXXXCM	0030…9990 cm	
XXX.XFT	001.0…327.0 ft.	

e	Cable type *see chapter 6 for detailed information*			
for M12 connectors (D53)				
530109	PUR cable			
for M16 connectors (D63)				
530040	PVC cable			

f	Cable end			
0	Open cable end			
Optional - instead of pigtail cable end *(see chapter 5.3 for detailed information)*				
M12 connector (D53) *see chapter 5.3 for detailed information*				
56084	Straight	Male	R-Series	D53
56085	Straight	Female	R-Series	D53
M16 connector (D63) *see chapter 5.4 for detailed information*				
37042	Straight	Male	R-Series	D63
37061	Angled	Male	R-Series	D63

Wiring

Cable 530 040	M12 female/male connector	Cable 530 109	M16 female/male connector
Color	**Pin**	**Color**	**Pin**
GN	2	GN	1
RD	4	RD	2
BK	Not connected		5
BU	Not connected		6
YE	Not connected		Not connected

*/ Length tolerance: –0/+1 % (minimum –0/+10 cm (0.3 ft.))

7.6 Start/Stop

Example: *100 cm PUR cable (530 052) with M12 straight female connector (370 694) and open cable end for E-Series Start/Stop (D84): K2-R-370694-0100CM-530052-0*

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
K	2	R																			0
a		b	c						d						e						f

a	Name
K 2	Cable configurator

b	Output
R	Start/Stop

c	Cable begin			
M12 connector (D84) *see chapter 5.3 for detailed information*				
3 7 0 6 9 4	Straight	Female	E-Series	D84
3 7 0 6 9 9	Angled	Female	E-Series	D84
M16 connector (D60) *see chapter 5.4 for detailed information*				
3 7 0 4 2 3	Straight	Female	G-Series	D60
3 7 0 4 6 0	Angled	Female	G-Series	D60

d	Cable length*
X X X X C M	0030…9990 cm
X X X . X F T	001.0…327.0 ft.

e	Cable type *see chapter 6 for detailed information*
5 3 0 0 3 2	PVC cable
5 3 0 0 5 2	PUR cable
5 3 0 1 1 2	FEP cable
5 3 0 1 1 6	PUR cable

f	Cable end
0	Open cable end

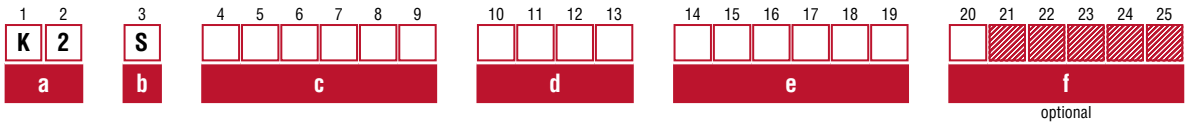
Wiring

Cable 530 032	Cable 530 052	Cable 530 112	Cable 530 116	M12 female connector	M16 female connector
Color	Color	Color	Color	Pin	Pin
GY	GY	GY	GY	4	1
PK	PK	PK	PK	3	2
YE	YE	YE	YE	1	3
GN	GN	GN	GN	2	4
BN	BN	BN	BN	7	5
WH	WH	WH	WH	8	6
		BU	BU	Not connected	Not connected
		RD	RD	Not connected	Not connected

*/ Length tolerance: –0/+1 % (minimum –0/+10 cm (0.3 ft.))

7.7 SSI

Example: *100 cm PVC cable (530 032) with M16 straight female connector (370 624) and open cable end for R-Series V SSI (D70):*
K2-S-370624-0100CM-530032-0



a	Name
K 2	Cable configurator

b	Output
S	SSI

c	Cable begin			
M12 connector (D84) *see chapter 5.3 for detailed information*				
3 7 0 6 9 4	Straight	Female	E-Series GB-Series R-Series V	D84 D84 D84
3 7 0 6 9 9	Angled	Female	E-Series GB-Series R-Series V	D84 D84 D84
M16 connector (D70) *see chapter 5.4 for detailed information*				
3 7 0 6 2 4	Straight	Female	R-Series R-Series V	D70 D70
5 6 0 7 7 9	Angled	Female	R-Series R-Series V	D70 D70

d	Cable length*	
X X X X C M	0030…9990 cm	
X X X X F T	001.0…327.0 ft.	

e	Cable type *see chapter 6 for detailed information*	
5 3 0 0 3 2	PVC cable	
5 3 0 0 5 2	PUR cable	
5 3 0 1 1 2	FEP cable	
5 3 0 1 1 6	PUR cable	
5 3 0 1 5 7	FEP cable	
5 3 0 1 7 5	PUR cable	
5 3 0 1 7 6	Silicon cable	

f	Cable end			
0	Open cable end			
Optional – instead of pigtail cable end *(see chapter 5.4 for detailed information)*				
M16 (D70)				
3 7 0 6 2 5	Straight	Male	R-Series	D70

Wiring

Cable 530 032	Cable 530 052	Cable 530 112	Cable 530 116	Cable 530 157	Cable 530 175	Cable 530 176	M12 female connector	M16 female/male connector
Color	Color	Color	Color	Color	Color	Color	Pin	Pin
GY	GY	GY	GY	GY	GY	GY	4	1
PK	PK	PK	PK	PK	PK	PK	3	2
YE	YE	YE	YE	YE	YE	YE	1	3
GN	GN	GN	GN	GN	GN	GN	2	4
BN	BN	BN	BN	BN	BN	BN	7	5
WH	WH	WH	WH	WH	WH	WH	8	6
		BU	BU				Not connected	Not connected
		RD	RD				Not connected	Not connected

*/ Length tolerance: –0/+1 % (minimum –0/+10 cm (0.3 ft.))

7.8 Power supply for CANbus/EtherCAT®/EtherNet/IP™/POWERLINK/PROFIBUS/PROFINET

Example: *100 cm PVC cable (530 108) with M8 straight female connector (370 504) and open cable end for power supply of R-Series V POWERLINK (D56): K2-Z-370504-0100CM-530108-0*

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
K	2	Z											C	M							0
a		b	c						d						e						f

a	Name
K 2	Cable configurator

b	Output
Z	Power supply

c	Cable begin			
M8 connector (D53/D54/AXX/D56) *see chapter 5.2 for detailed information*				
3 7 0 5 0 4	Straight	Female	R-Series CANbus	D54
			R-Series EtherCAT®	D56
			R-Series EtherNet/IP™	D56
			R-Series POWERLINK	D56
			R-Series PROFIBUS	D53
			R-Series PROFIBUS	AXX
			R-Series V EtherCAT®	D56
			R-Series V EtherNet/IP™	D56
			R-Series V POWERLINK	D56
			R-Series V PROFINET	D56
5 6 0 8 8 6	Angled	Female	R-Series CANbus	D54
			R-Series EtherCAT®	D56
			R-Series EtherNet/IP™	D56
			R-Series POWERLINK	D56
			R-Series PROFIBUS	D53
			R-Series PROFIBUS	AXX
			R-Series V EtherCAT®	D56
			R-Series V EtherNet/IP™	D56
			R-Series V POWERLINK	D56
			R-Series V PROFINET	D56
M12 connector (D58) *see chapter 5.3 for detailed information*				
3 7 0 6 7 7	Straight	Female	R-Series PROFINET	D58
			R-Series V EtherNet/IP™	D58
			R-Series V EtherCAT®	D58
			R-Series V POWERLINK	D58
			R-Series V PROFINET	D58

d	Cable length*	
X X X X C M	0030…9990 cm	
X X X . X F T	001.0…327.0 ft.	

e	Cable type *see chapter 6 for detailed information*
5 3 0 1 0 8	PVC cable

f	Cable end
0	Open cable end

Wiring

Cable 530 108	M8 female connector	M12 female connector
Color	**Pin**	**Pin**
BN	1	1
	2	2
WH	3	3
	4	6
GN	Not connected	Not connected

*/ Length tolerance: –0/+1 % (minimum –0/+10 cm (0.3 ft.))

8. Programming tools

Photo	Name & part number	Description	Series & output
	**CANopen address programmer with straight connector** **Part no. 252 382-D62** **CANopen address programmer with angled connector** **Part no. 252 382-D62A**	Used for setting the node address to Temposonics® sensors with CANopen interface. The setup of the node address is normally done by the CANbus standard LMT-Service. Since some master systems do not support this standard, or the customer controller system can not handle it, this service tool can be used for the direct setup of the sensor. All you need for using the programmer is a +24 VDC power supply to the sensor. The programming tool will be supplied by the Temposonics® position sensor.	**R-Series** CANbus
	**Hand programmer for analog output** **Part no. 253 124**	Easy teach-in-setups of stroke length and direction on desired zero / span positions. For sensors with 1 magnet.	**E-Series** ET Analog **GB-Series** Analog **R-Series** Analog **R-Series V** Analog
	**Programming kit** **Part no. 253 134-1 (EU)** **Part no. 253 309-1 (US)**	Kit includes: 1 × interface converter box, 1 × power supply 1 × cable (60 cm) with M16 female connector (6 pin), straight – D-sub female connector (9 pin), straight 1 × cable (60 cm) with 3 × terminal clamp – D-sub female connector (9 pin), straight 1 × USB cable For sensors with 1 or 2 magnets. Software is available at: www.temposonics.com	**E-Series** ET Analog **R-Series** Analog **T-Series** Analog (standard)
	**Programming kit** **Part no. 253 135-1 (EU)** **Part no. 253 310-1 (US)**	Kit includes: 1 × interface converter box, 1 × power supply 1 × cable (60 cm) with M16 female connector (7 pin), straight – D-sub female connector (9 pin), straight 1 × cable (60 cm) with 6 × terminal clamp – D-sub female connector (9 pin), straight 1 × USB cable Software is available at: www.temposonics.com	**E-Series** ET SSI **R-Series** SSI **T-Series** SSI

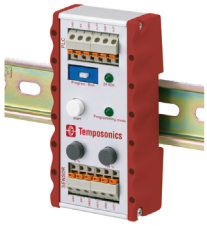
Photo	Name & part number	Description	Series & output
	**Programming kit** **Part no. 253 145-1**	Kit includes: 1 × interface converter box 1 × power supply 1 × cable (60 cm) with M16 female connector (6 pin), straight & 2 × banana connector – D-sub female connector (9 pin), straight 1 × cable (60 cm) with 4 × terminal clamp – D-sub female connector (9 pin), straight 1 × USB cable Software is available at: www.temposonics.com	**G-Series** Analog
	**Programming kit** **Part no. 253 146-1**	Kit includes: 1 × interface converter box 1 × power supply 1 × cable (60 cm) with M16 female connector (6 pin), straight – D-sub female connector (9 pin), straight 1 × cable (60 cm) with 6 × terminal clamp – D-sub female connector (9 pin), straight 1 × USB cable Software is available at: www.temposonics.com	**G-Series** Start/Stop
	**Cabinet programmer for analog output** **Part no. 253 408**	Features snap-in mounting on standard DIN rail (35 mm). This programmer can be permanently mounted in a control cabinet and includes a program/run switch. For sensors with 1 magnet.	**E-Series** ET Analog **GB-Series** Analog **R-Series** Analog **R-Series V** Analog **T-Series** Analog (standard)
	**Hand programmer for analog output** **Part no. 253 853**	Easy teach-in-setups of stroke length and direction on desired zero / span positions. For sensors with 1 magnet.	**G-Series** Analog
	**Programming kit** **Part no. 254 555**	Kit includes: 1 × interface converter box 1 × power supply 1 × cable (60 cm) with M12 female connector (5 pin), straight – D-sub female connector (9 pin), straight 1 × cable (60 cm) with M16 female connector (6 pin), straight – D-sub female connector (9 pin), straight 1 × cable (60 cm) with 3 × terminal clamp – D-sub female connector (9 pin), straight 1 × USB cable Software is available at: www.temposonics.com	**GB-Series** Analog

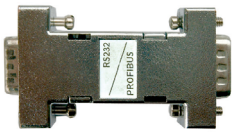
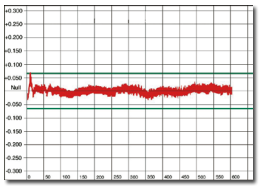
Photo	Name & part number	Description	Series & output
	**Programming kit** **Part no. 254 590**	Kit includes: 1 × interface converter box 1 × power supply 1 × cable (60 cm) with M12 female connector (8 pin), straight – D-sub female connector (9 pin), straight 1 × cable (60 cm) with M16 female connector (7 pin), straight – D-sub female connector (9 pin), straight 1 × cable (60 cm) with 6 × terminal clamp – D-sub female connector (9 pin), straight 1 × USB cable Software is available at: www.temposonics.com	**GB-Series** SSI
	**PROFIBUS node address programmer** **Part no. 280 640**	Used for setting the slave address to Temposonics® sensors with PROFIBUS-DP interface. The setup of slave address is normally done by the PROFIBUS standard service SetSlaveAddress. Since some master systems do not support this standard, or the customer controller system can not handle it, this service tool can be used for the direct setup of the sensor. The programmer and the sensor will be supplied by the included power supply.	**R-Series** PROFIBUS
	**PROFIBUS master simulator** **Part no. 401 727** **PROFIBUS adapter cable for connection type D53** **Part no. 252 383** **PROFIBUS adapter cable for connection type D63** **Part no. 401 726**	The master simulator can be used to check the sensors functions and to change the slave address. The magnet positions can be read out and the diagnostic data as well.	**R-Series** PROFIBUS
	**Linearity diagram** **Part no. 625 096**	DIN A4 printout with sensor data and graphic with the linearity gradient. This gradient can be used to choose a special linear segment or for linearity correction in sections.	**R-Series** Analog CANbus EtherCAT® EtherNet/IP™ PROFIBUS POWERLINK PROFINET SSI **R-Series V** Analog EtherCAT® EtherNet/IP™ POWERLINK PROFINET SSI

Photo	Name & part number	Description	Series & output
	**IX350/AC SSI indicator** **Part no. IX350/AC**	Indicator with resistive touch panel and multi-color graphic display. Visualization of plain text, symbols and units. Housing: 96 mm × 48 mm × 116 mm For additional information see: www.motrona.com	**E-Series** SSI **GB-Series** SSI **R-Series** SSI **R-Series V** SSI **T-Series** SSI

9. TempoLink® smart assistant for R-Series V

YOUR SMART ASSISTANT

The TempoLink® smart assistant is an accessory for the R-Series V sensors family. It supports the setup of the sensor in the application as well as providing additional status information for sensor diagnostics.

ORDER CODE

1	2	3	4	5	6	7	8
T	L		0				
a		b	c	d			

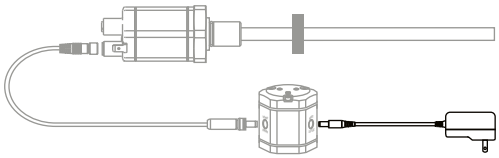
a	Type
T	L	TempoLink® smart assistant kit

b	Power supply
1	Plug-in power supply with plug adapters (AU, CCC, EU, UK, US)
2	Cable for insertion in existing sensor power supply with sensor mating connector and barrel connector (for connection type D56)
3	Cable for insertion in existing sensor power supply with sensor mating connector and barrel connector (for connection type D58)
4	Barrel connector with pig-tail for connection to an existing power supply

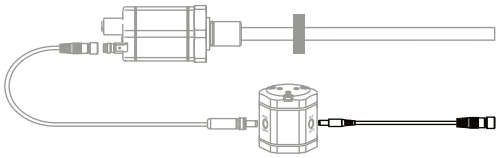
c	Option
0	No options

d	Adapter cables for connection to R-Series V
E M 0 8	Cable with M8 female connector (4 pin) for connection type D56 (EtherCAT®/EtherNet/IP™/POWERLINK/PROFINET) (part no. 254 887-1)
E M 1 2	Cable with M12 female connector (4 pin) for connection type D58 (EtherCAT®/EtherNet/IP™/POWERLINK/PROFINET) (part no. 254 897-1)
S D 7 0	Cable with M16 female connector (7 pin) for connection type D70 (SSI) (part no. 254 990-1)
S D 8 4	Cable with M12 female connector (8 pin) for connection type D84 (SSI) (part no. 255 204-1)
A D 3 4	Cable with M12 female connector (5 pin) for connection type D34 (Analog) (part no. 254 897-1)
A D 6 0	Cable with M16 female connector (6 pin) for connection type D60 (Analog) (part no. 254 989-1)
A S 0 0	Cable with 6 × terminal clamps for connection type cable outlet (Analog/SSI) (part no. 255 043-1)

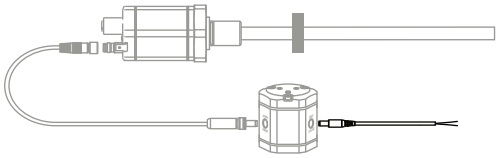
Plug-in power supply with plug adapters (AU, CCC, EU, UK, US)



Cable for insertion in existing sensor power supply with sensor mating connector and barrel connector



Barrel connector with pig-tail for connection to an existing power supply

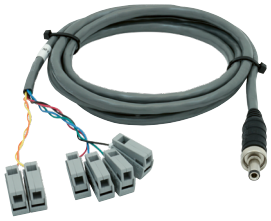


DELIVERY

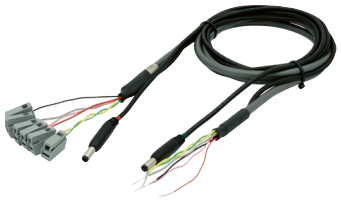
TempoLink® smart assistant kit
- TempoLink® smart assistant
- One of the four options for the power supply
- One adapter cable to connect TempoLink® smart assistant to R-Series V sensor
- USB cable for optional connection of TempoLink® smart assistant to a computer

Adapter cables to connect TempoLink® smart assistant to sensors of R-Series V can be ordered separately

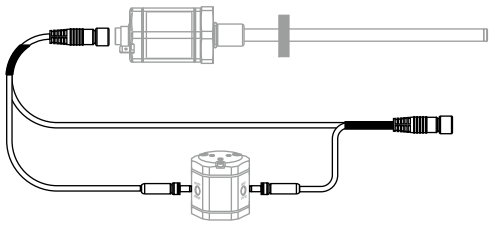
9.1 Adapter cables for connection of TempoLink® smart assistant to a specific R-Series V sensor

Photo	Name & part number	Description	Series & output	
	**Adapter cable for D56 M8 female connector (4 pin) – barrel Part no. 254 887-1**	Material: PVC Cable length: 1.5 m	**R-Series V**	
			EtherCAT®	D56
			EtherNet/IP™	D56
			POWERLINK	D56
			PROFINET	D56
	**Adapter cable for D34/D58 M12 female connector (5 pin/4 pin) – barrel Part no. 254 897-1**	Material: PUR Cable length: 1.5 m	**R-Series V**	
			Analog	D34
			EtherCAT®	D58
			EtherNet/IP™	D58
			POWERLINK	D58
			PROFINET	D58
	**Adapter cable for D60 M16 female connector (6 pin) – barrel Part no. 254 989-1**	Material: PVC Cable length: 1.5 m	**R-Series V**	
			Analog	D60
	**Adapter cable for D70 M16 female connector (7 pin) – barrel Part no. 254 990-1**	Material: PVC Cable length: 1.5 m	**R-Series V**	
			SSI	D70
	**Adapter cable for D84 M12 female connector (8 pin) – barrel Part no. 255 204-1**	Material: PUR Cable length: 1.5 m	**R-Series V**	
			SSI	D84
	**Adapter cable for cable output 6 × terminal clamps – barrel Part no. 255 043-1**	Material: PVC Cable length: 1.5 m	**R-Series V**	
			Analog	Cable outlet
			SSI	Cable outlet

9.2 Inline cables for SSI output

Photo	Name & part number	Description	Series & output
	**Inline cable for cable outlet (SSI)** **6 × terminal clamps –** **pigtail with 2 barrel connectors** **Part no. 255 004**	Material: PVC Cable length: 1.5 m	**R-Series V** SSI — Cable outlet
	**Inline cable for D70** **M16 female connector (7 pin) –** **M16 connector male (7 pin)** **with 2 barrel connectors** **Part no. 254 994-1**	Material: PVC Cable length: 1.5 m	**R-Series V** SSI — D70

NOTICE



Inline cable

- The TempoLink® smart assistant can be used to read out R-Series V status information during operation.
- SSI combines power supply and data lines in one cable.
- Inline cable allows the TempoLink® smart assistant to be connected in parallel to the data transfer to the control.
  So status information can be read during operation of the R-Series V SSI sensor while the TempoLink® smart assistant is connected.

10. TempoGate® smart assistant for R-Series V

YOUR SMART ASSISTENT

The TempoGate® smart assistant is an accessory for the R-Series V sensors family. It is installed in a control cabinet and provides additional status information of the sensors for monitoring and diagnostics of your plant during operation. In addition, the TempoGate® smart assistant supports the setup of the sensors in your application.

1	2	3	4	5	6	7
T	G		0	D		
a		b	c	d		

a	Type
T G	TempoGate® smart assistant kit

b	Power supply per channel at the connection module
C	Common power supply for all channels via connection module 1
I	Individual power supply for each channel

c	Options
0	No options

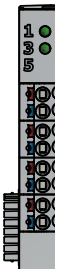
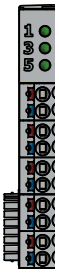
d	Number of digital channels for connection of R-Series V
D X X	D02…D24 (02…24 channels for R-Serie V EtherCAT®, EtherNet/IP™, POWERLINK, PROFINET or SSI) only even number of digital channels possible

DELIVERY

TempoGate® smart assistant kit

- TempoGate® smart assistant gateway
- Depending on the selected configuration: one to four connection modules for 2…24 digital R-Series V sensors
- Power supply for gateway (3 pin connector)

10.1 Connection moduls

Photo	Name & part number	Description	Series & output
	**TempoGate® connection module for digital sensors with 2 channels** **Part no. 255058-1**	Connection module for expanding the TempoGate® smart assistant for R-Series V EtherCAT®/EtherNet/IP™/ POWERLINK/PROFINET/SSI. Note, that no more than four connection modules can be connected to one TempoGate® gateway.	**R-Series V** EtherCAT® EtherNet/IP™ POWERLINK PROFINET SSI
	**TempoGate® connection module for digital sensors with 4 channels** **Part no. 255058-2**	Connection module for expanding the TempoGate® smart assistant for R-Series V EtherCAT®/EtherNet/IP™/ POWERLINK/PROFINET/SSI. Note, that no more than four connection modules can be connected to one TempoGate® gateway.	**R-Series V** EtherCAT® EtherNet/IP™ POWERLINK PROFINET SSI
	**TempoGate® connection module for digital sensors with 6 channels** **Part no. 255058-3**	Connection module for expanding the TempoGate® smart assistant for R-Series V EtherCAT®/EtherNet/IP™/ POWERLINK/PROFINET/SSI. Note, that no more than four connection modules can be connected to one TempoGate® gateway.	**R-Series V** EtherCAT® EtherNet/IP™ POWERLINK PROFINET SSI

10.2 Recovery Medium

Photo	Name & part number	Description
	**TempoGate® recovery medium** **Part no. 531155-1**	USB stick with a signed image for software recovery of the TempoGate® gateway

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