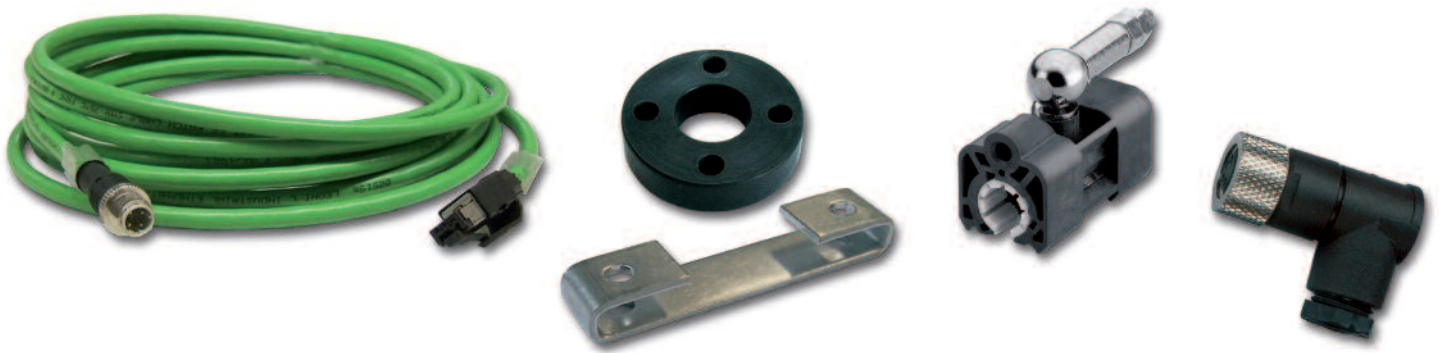


Temposonics®

Absolute, Non-Contact Position Sensors


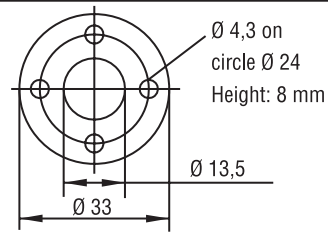

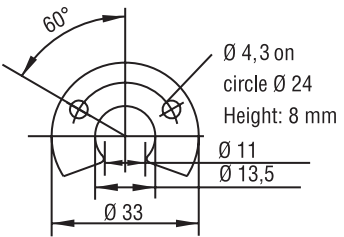

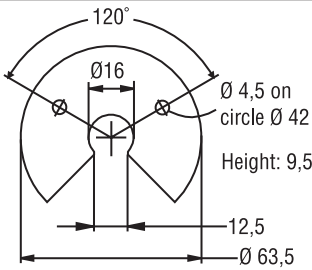

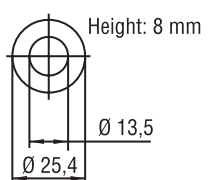

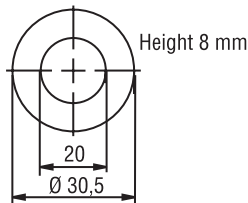

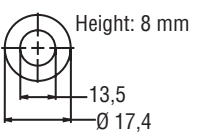

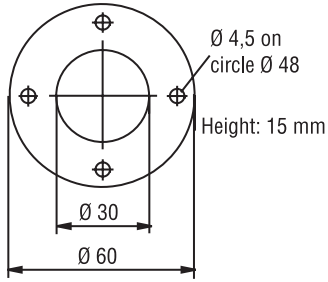
Accessories



- Position Magnets
- Floats
- Connectors
- Clamps
- Cables
- Programming Tools
- High Pressure Housing, ...

ACCESSORIES R-SERIES


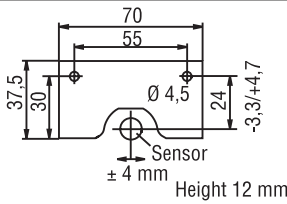

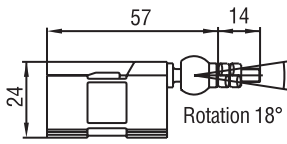

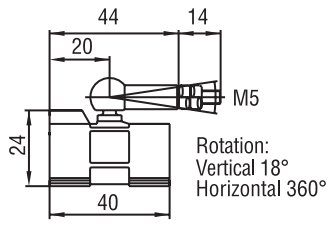

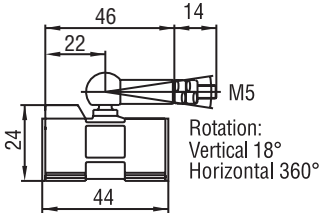

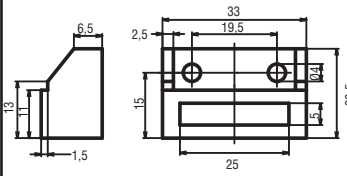

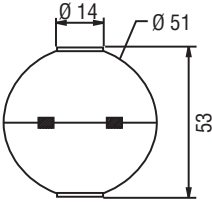

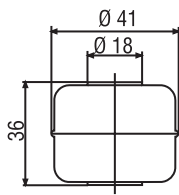

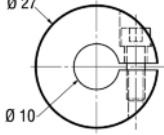
Position Magnets, Floats, Connectors, Clamps, Cables and Programming Tools

Product	Dimension	Material	Application
 <p>Standard magnet Ring magnet OD33 Part No. 201 542-2</p>	 <p>Ø 4,3 on circle Ø 24 Height: 8 mm Ø 13,5 Ø 33</p>	<p>Composite PA-Ferrite-GF20 Weight ca. 14 g Operating temperature: -40 ... +100°C Surface pressure max. 40 N/mm² Fastening Torque for M4 screws max. 1 Nm</p>	<p>RH, RF, RD4 marked version for sensors with linearity correction option (LCO): Part No. 253 620</p>
 <p>Standard magnet U-magnet OD33 Part No. 251 416-2</p>	 <p>60° Ø 4,3 on circle Ø 24 Height: 8 mm Ø 11 Ø 13,5 Ø 33</p>	<p>Composite PA-Ferrite-GF20 Weight ca. 11 g Operating temperature: -40 ... +100°C Surface pressure max. 40 N/mm²</p>	<p>RH, RF, RP marked version for sensors with linearity correction option (LCO): Part No. 254 226</p>
 <p>U-magnet OD63,5 Part No. 201 553</p>	 <p>120° Ø 16 Ø 4,5 on circle Ø 42 Height: 9,5 12,5 Ø 63,5</p>	<p>PA 66-GF30 Magnets compound-filled Weight ca. 26 g Operating temperature: -40 ... +75°C</p>	<p>RH, RF, RP</p>
 <p>Ring magnet OD25,4 Part No. 400 533</p>	 <p>Height: 8 mm Ø 13,5 Ø 25,4</p>	<p>Composite: PA-Ferrite Weight ca. 10 g Operating temperature: -40 ... +100°C Surface pressure max. 40 N/mm²</p>	<p>RH, RF, RD4 marked version for sensors with linearity correction option (LCO): Part No. 253 621</p>
 <p>Ring magnet OD30,5 Part No. 402 316</p>	 <p>Height 8 mm 20 Ø 30,5</p>	<p>Composite: PA-Ferrite Weight ca. 15 g Operating temperature: -40 ... +100°C Surface pressure max. 40 N/mm²</p>	<p>RH, RF, RD4</p>
 <p>Ring magnet Part No. 401 032</p>	 <p>Height: 8 mm 13,5 Ø 17,4</p>	<p>PA-Neonbond compound Weight ca. 5 g Operating temperature: -40 ... +100 Surface Pressure max. 20 N/mm²</p>	<p>RH, RD4 (not for multi-position measurement)</p>
 <p>Ring magnet OD60 Part No. MT 0162</p>	 <p>Ø 4,5 on circle Ø 48 Height: 15 mm Ø 30 Ø 60</p>	<p>Al CuMgPb Magnets compound-filled Weight ca. 90 g Operating temperature: -40 ... +75°C</p>	<p>RH, RF, RD4</p>

Notice: More magnets available on request. Product pictures may vary from original.

ACCESSORIES R-SERIES


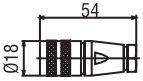
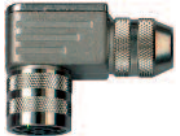
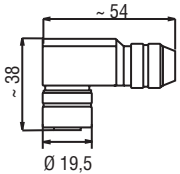

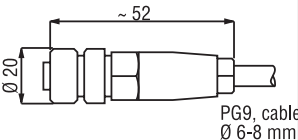

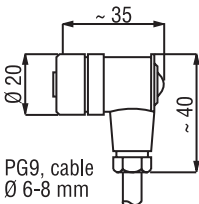



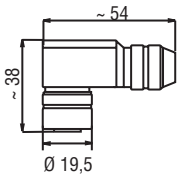

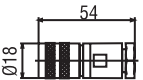
Position Magnets, Floats, Connectors, Clamps, Cables and Programming Tools

Product	Dimension	Material	Application
 <p>U-magnet 70 Part No. 252 185</p>	 <p>70 55 37.5 30 Ø 4,5 24 -3,3/+4,7 Sensor ± 4 mm Height 12 mm</p>	<p>AlMg4.5Mn, black anodised Magnets compound-filled Weight ca. 75 g Operating temperature: -40...+75°C</p>	<p>RH, RF, RP Resolution min. 10 µm</p>
 <p>Magnet slider V Part No. 252 184</p>	 <p>57 14 24 Rotation 18°</p>	<p>GFK, Magnet Hardferrite Weight ca. 30 g Operating temperature: -40 ... +75°C</p>	<p>RP</p>
 <p>Magnet slider S Magnet slider G Part No. 252 182 Part No. 253 421</p>	 <p>44 14 20 M5 24 40 Rotation: Vertical 18° Horizontal 360°</p>	<p>GFK, Magnet Hardferrite Weight ca. 30 g Operating temperature: -40 ... +75°C Magnet slider S: Ball joint CuZn 39Pb3 nickel plated Magnet slider G - free from float: Socket joint, high-strength plastics Ball joint CuZn39Pb3 nickel plated</p>	<p>RP</p>
 <p>Magnet slider P Part No. 253 673</p>	 <p>46 14 22 M5 24 44 Rotation: Vertical 18° Horizontal 360°</p>	<p>GFK, Magnet Hardferrite Weight ca. 30 g Operating temperature: -40 ... +75°C with additional end plates</p>	<p>RP</p>
 <p>Block magnet Part No. 403 448</p>	 <p>6,5 33 2,5 19,5 13 1,5 15 20,5 25</p>	<p>Weight: ca. 20 g Operating temperature: -40...+75°C</p>	<p>RH, RF, RP Resolution min. 10 µm</p>
 <p>Float 50 mm Part No. 251 447</p>	 <p>Ø 14 Ø 51 53</p>	<p>1.4571 Stainless steel Density: 720 kg/m³ Max. Pressure: < 40 bar Weight: 42 ± 3 g</p>	<p>RH, RF</p>
 <p>Float 41 mm Part No. 200 938-2</p>	 <p>Ø 41 Ø 18 36</p>	<p>1.4404 Stainless steel Density: 740 kg/m³ Max. Pressure: =< 8 bar Weight: 20 ± 2 g</p>	<p>RH, RF</p>
 <p>Collar Part No. 560 777</p>	 <p>Ø 27 Ø 10</p>	<p>1.4301 Stainless steel</p>	<p>RH</p>

Notice: Product pictures may vary from original.

ACCESSORIES R-SERIES


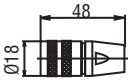

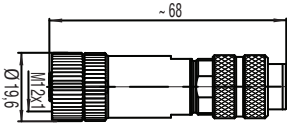
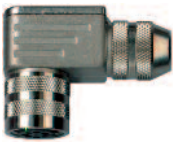
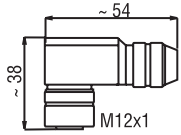

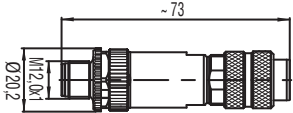

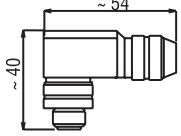

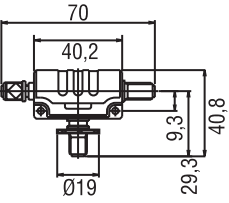

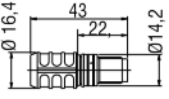
Position Magnets, Floats, Connectors, Clamps, Cables and Programming Tools

Product	Dimension	Material	Application
 <p>6 pin Connector (for cable Ø 6 mm) Part No. 370 623 (female) For cable Ø 6-8 mm Part No. 370 423</p>		Housing: Zinc nickel plated Termination: Solder Contact insert: Silver plated Max. Cable-Ø 6 mm or Ø 8 mm depending on design	Analog CAN
 <p>6 pin Connector M16, 90° Part No. 560 778 (female)</p>		Housing: Zinc nickel plated Termination: Solder Contact insert: Silver plated Max. Cable-Ø 8 mm	Analog CAN
 <p>5 pin connector, M12x1 Part No. 370 618 (female)</p>		Housing: PA Termination: Screws clamp Contact insert: (CuZn/Sn) Max. Cable-Ø 6-8 mm	CAN
 <p>5 pin connector, M12x1, 90° Part No. 370 619 (female)</p>		Housing: PA Termination: Screws clamp Contact insert: (CuZn/Sn) Max. Cable-Ø 6-8 mm	CAN
 <p>7 pin Connector, M16 Part No. 370 624 (female)</p>		Housing: Zinc nickel plated Termination: Solder Contact insert: Silver plated Cable clamp: PG9 Max. Cable-Ø 8 mm	SSI
 <p>7 pin Connector, M16, 90° Part No. 560 779 (female)</p>		Housing: Zinc nickel plated Termination: Solder Contact insert: Silver plated Max. Cable-Ø 8 mm	SSI
 <p>6 pin Connector, M16 Part No. 370 423 (female) Part No. 370 427 (male)</p>		Housing: Zinc nickel plated Termination: Solder Contact insert: Silver plated Cable clamp: PG9	Profibus (D63)

Notice: Product pictures may vary from original.

ACCESSORIES R-SERIES


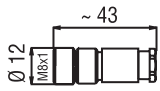

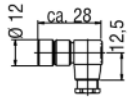

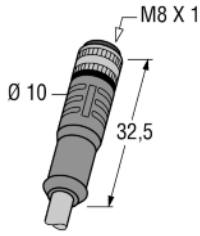
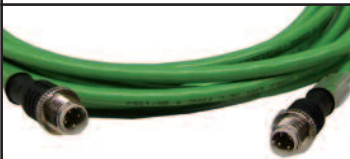
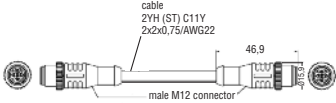

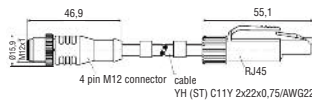

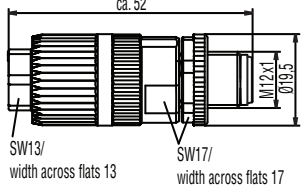

Position Magnets, Floats, Connectors, Clamps, Cables and Programming Tools

Product	Dimension	Material	Application
 <p>6 pin Bus endplug M16, male Part No. 370 620</p>		Housing: Zinc nickel plated Contact insert: Silver plated	Profibus (D63)
 <p>5 pin connector M12-B Part No. 560 885 (female)</p>		Housing: Zinc nickel plated Termination: spring-type terminal Contact insert: Silver plated Cable-Ø: 6,5 - 8,5 mm	Profibus (D53)
 <p>5 pin 90° connector M12-B Part No. 370 514 (female)</p>		Housing: Zinc nickel plated Termination: spring-type terminal Contact insert: Silver plated Cable-Ø: 6,5 - 8,5 mm	Profibus (D53)
 <p>5 pin connector M12-B Part No. 560 884 (male)</p>		Housing: Zinc nickel plated Termination: Srews clamp Contact insert: Silver plated Cable-Ø: 6,5 - 8,5 mm	Profibus (D53)
 <p>5 pin 90° connector M12-B Part No. 370 515 (male)</p>		Housing: Zinc nickel plated Termination: Srews clamp Contact insert: Silver plated Cable clamp: M16 Cable-Ø: 6,5 - 8,5 mm Cable type e.g.: K25	Profibus (D53)
 <p>5 pin Bus T-connector M12 Part No. 560 887</p>		Housing: PA 66 Contact insert: Silver plated	Profibus (D53)
 <p>5 pin Bus endplug M12 Part No. 560 888</p>		Housing: PA 66 Contact insert: Silver plated	Profibus (D53)

Notice: Product pictures may vary from original.

ACCESSORIES R-SERIES

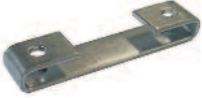
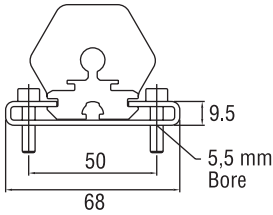

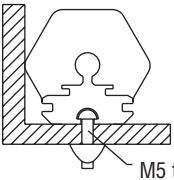

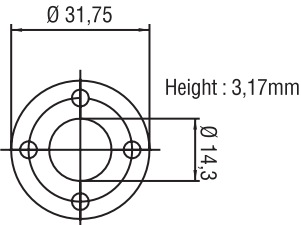

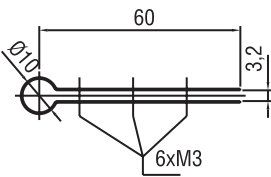



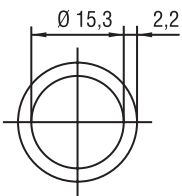

Position Magnets, Floats, Connectors, Clamps, Cables and Programming Tools

Product	Dimension	Material	Application
 <p>4 pin cable connector M8 Part No. 370 504</p>	 <p>~ 43 Ø 12</p>	<p>Housing: Brass nickel plated Termination: Solder Contact insert: Au Max. Cable-Ø 5 mm</p>	<p>Profibus (D53) EtherCAT CAN (D54) POWERLINK</p>
 <p>4 pin cable connector M8, 90° Part No. 560 886</p>	 <p>Ø 12 ca. 28 12,5</p>	<p>Housing: PA 66 Termination: Solder Contact insert: Au Max. Cable-Ø 5 mm</p>	<p>Profibus (D53) EtherCAT CAN (D54) POWERLINK</p>
 <p>Cable connector Part No. 530 066 Part No. 530 096 Part No. 530 093</p>	 <p>M8 X 1 Ø 10 32,5</p>	<p>PUR-cable with 4 pin. female connector 5 m length free end 4 x 0,25 mm², shielded for 24 V power supply</p> <p>Part No. 530 066 = 5 m length Part No. 530 096 = 10 m length Part No. 530 093 = 15 m length</p>	<p>Profibus (D53) EtherCAT CAN (D54)</p>
 <p>Cable connector Part No. 530 064</p>	 <p>46,9 male M12 connector cable 2YH (ST) C11Y 2x2x0,75/AWG22</p>	<p>5 m industrial Ethernet cable (Cat 5e ES) w/2x4 pin M12-connectors (D-coded) PUR-jacket, green</p>	<p>EtherCAT POWERLINK</p>
 <p>Cable connector Part No. 530 065</p>	 <p>46,9 55,1 4 pin M12 connector cable YH (ST) C11Y 2x2x0,75/AWG22 RJ45</p>	<p>5 m industrial Ethernet cable (Cat 5e ES) RJ45 connector and M12-connector (D-coded) PUR-jacket, green</p>	<p>EtherCAT POWERLINK</p>
 <p>4 pin Bus cable connector Part No. 370 523</p>	 <p>ca. 52 M12 X1 Ø 19,5 SW13/ width across flats 13 SW17/ width across flats 17</p>	<p>IDC technology</p>	<p>EtherCAT POWERLINK</p>
 <p>End cap Part No. 370 537</p>		<p>Aluminum</p>	<p>EtherCAT</p>

Notice: Product pictures may vary from original.

ACCESSORIES R-SERIES


Position Magnets, Floats, Connectors, Clamps, Cables and Programming Tools

Product	Dimension	Material	Application
 Clamp Part No. 400 802	 9.5 50 68 5,5 mm Bore	Stainless steel	RP
 T-Nut Part No. 401 602	 M5 thread	Stainless steel	RP
 Spacer Part No. 400 633	 Ø 31,75 Height : 3,17mm Ø 14,3	Aluminum	RH
 Fixing clip Part No. MT 0200	 60 2,5 Ø10 6xM3	Brass Flat section and fastening screws: non-magnetic material	RH
 Metal protection cap for connector M16 Part No. 403 290			Analog, CAN, SSI, Profibus
 Hex nut Part No. 500 018		Edelstahl	RH-M
 O-ring Part No. 401 133	 Ø 15,3 2,2	Fluorelastomer FPM 75 Operating temperature: -10...+125°C	RH-M
 Cable Part No. 530 032	3 x 2 x 0,14 mm ² Ø 6 mm	PVC -10 ... +80°C	Standard

Notice: Product pictures may vary from original.

ACCESSORIES R-SERIES





Position Magnets, Floats, Connectors, Clamps, Cables and Programming Tools

Product	Dimension	Material	Application
 <p>Cable Part No. 530 052</p>	3 x 2 x 0,25 mm Ø 6,8 mm	Pelon PUR -40 ... +80°C	Halogen free Oil-resistant High flexible
 <p>Cable Part No. 530 116</p>	4 x 2 x 0,25 mm²	PUR (-30 ... +90°C)	Water proof wires
 <p>Cable Part No. 530 112</p>	4 x 2 x 0,25 mm²	Teflon (-90 ... +180°C)	Temperature
 <p>Cable Part No. 530 029</p>	7 x 0,14 mm² EMC protected Ø 7 mm	PUR -20 ... +70°C	SSI, CAN
 <p>Cable Part No. 530 040</p>	BUS + feed-in Ø 8 mm	PVC -30 ... +80°C	Profibus-DP D63
 <p>Cable Part No. 530 109</p>	BUS conductor, high flexible cable Ø 8 mm	PUR -30 ... +70°C	Profibus-DP D53
Product	Description		
 <p>Hand-Programmer R-Analog Part No. 253 124</p>	<p>Hand-Programmer R-Analog for 1-Magnet Sensor is for easy teach-in-setups of measuring length and direction on desired Zero/Span positions.</p>		

Notice: Product pictures may vary from original.

ACCESSORIES R-SERIES


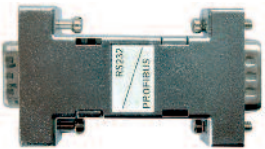

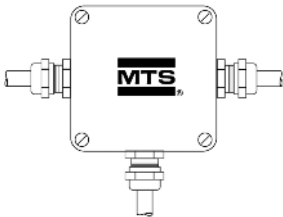
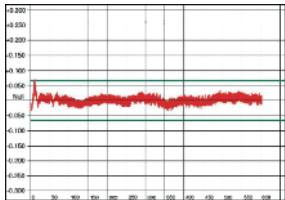
Position Magnets, Floats, Connectors, Clamps, Cables and Programming Tools

Product	Description
 <p>Cabinet-Programmer Part No. 253 408</p>	<p>Cabinet-Programmer R-Analog Cabinet-Programmer R-Analog completes the accessories program of MTS absolute position sensors. The unit can be used for adjusting a connected 1-magnet sensor via the leads, using a simple teach-in procedure in the field.</p>
 <p>USB-Programmer R-Analog Part No. 253 134-1</p>	<p>USB-Programmer R-Analog for 1 or 2-Magnets Sensor (incl. Power supply, USB-Cable, Sensor-Cable and CD-ROM) for setting and reading of position and output values by using a PC for</p> <ul style="list-style-type: none"> - Zero/Span Magnet 1 - Zero/Span Magnet 2 - Velocity range - Free assignment of outputs to measured position or velocity - Error output value (e.g. magnet out of stroke)
 <p>USB-Programmer R-SSI Part No. 253 135-1</p>	<p>USB-Programmer R-SSI (incl. Power supply, USB-Cable, Sensor-Cable and CD-ROM) for setting and reading of</p> <ul style="list-style-type: none"> - Data length - Data format - Resolution - Measuring direction - Synchronous / asynchronous measurement - Offset, begin of the measurement range - Alarm value (Magnet outside) - Measurement filter - Differential measurement
 <p>Profibus Address-Programmer Kit for D63, D53 or cable connector Part No. 280 640</p>	<p>PROFIBUS Address Programmer is used for setting the slave address to Temposonics® sensors with Profibus-DP Interface. The setup of slave address normally is 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 MTS 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.</p>

Notice: Product pictures may vary from original.

ACCESSORIES R-SERIES

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 <p>CANopen Address-Programmer D62 6 pin. female connector M 16 Part No. 252 382-D62 6 pin female 90°-connector M16 Part No. 252 382-D62A</p>	<p>CANopen Address Programmer is used for setting the Node-Address to Temposonics® sensors with CANopen Interface. The setup of Node-Address normally is done by the CAN Bus standard LMT-Service. Since some master systems do not support this standard, or the customer controller system can not handle it, this MTS service tool can be used for the direct setup of the sensor.</p> <p>All you need for using the programmer is a 24 VDC power supply to the sensor. The programming tool will be supplied from the Temposonics® position sensor.</p>
 <p>Profibus Master Simulator Part No. 401 727</p>	<p>PROFIBUS Master Simulator 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.</p> <p>Cable D 53 Part No. 252 383 Cable D63 Part No. 401 726</p>
 <p>Display and control unit with SSI input Part No. IX 345</p>	<p>Housing: 96 x 48 x 141 mm Cutout: 91 x 44 mm 6-segment LED Display for SSI</p>
 <p>Profibus Filter box Part No. 252 916</p>	<p>Housing: 80 x 75 x 58 mm The box is used for EMC-conformal feeding of 24 VDC supply voltage into the Profibus-DP hybrid cable.</p>
 <p>Linearity diagram Part No. 625 096</p>	<p>DIN A 4 printout with sensor data and graphic with the linearity gradient Printout with linearity gradient from the sensor. This gradient can be used to choose a special linear segment also for linearity correction in sections.</p>

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