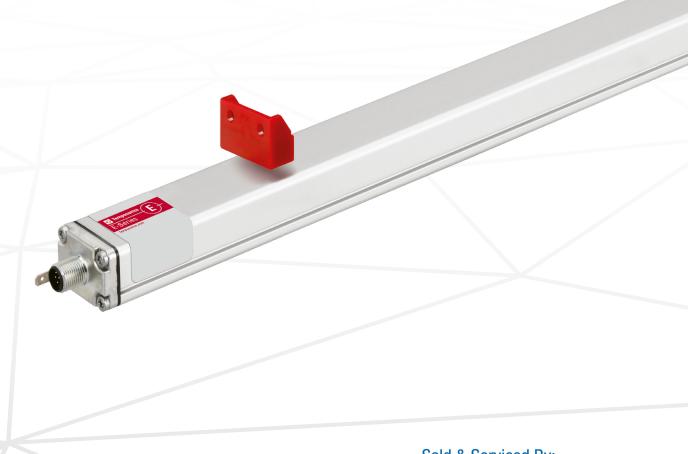


Data Sheet

EP2 Analog

Magnetostrictive Linear Position Sensors

- Optimal price-/performance ratio
- Position measurement with more than one magnet
- Flat & compact



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MEASURING TECHNOLOGY

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

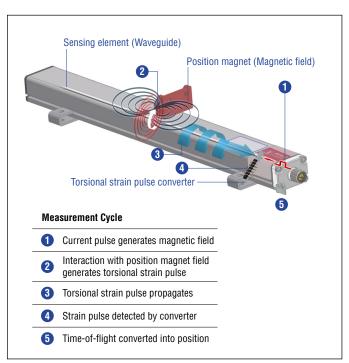


Fig. 1: Time-of-flight based magnetostrictive position sensing principle

EP2 SENSOR

Robust, non-contact and wear free, the Temposonics® linear position sensor provide high durability and precise position measurement feedback in harsh industrial environments. Measurement accuracy is tightly controlled by the quality of the waveguide manufactured exclusively by Temposonics.

The compact and flat aluminum profile offers flexible mounting options and easy installation. Moreover, the position magnet can travel along the entire flat housing profile. The EP2 has an attractive price-/performance ratio and is ideal for industrial applications including plastics molding and processing, factory automation and packaging.



Fig. 2: Plastic granulate for injection molding or extrusion

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TECHNICAL DATA

Voltage 010 VDC or 100 VDC, 010 VDC and 100 VDC (controller input resistance RL:>5 kΩ) Current 420 mA or 204 mA (minimum/maximum load: 0/500 Ω) Measured value Position, option: Multi-position measurement with a maximum of 2 magnets Measurement parameters Fesolution Resolution Infinite Cycle time Typ. 0.3 ms < t < 2 ms (depending on stroke lengths) Linearity ≤ ±0.02 % ES. (minimum ±0 µm) Repeatability ≤ ±0.005 % FS. (minimum ±20 µm) Operating conditions Uperating conditions Uperating temperature −40+75 °C (−40+167 °F) Humidity 9.0% relative humidity, no condensation Ingress protection 1² 1967 (if mating cable connector is correctly fitted) Shock test 10.0 g (single shock) (EC standard 60068-2-27 Vibration test 8 g.7102000 Hz (EC standard 60068-2-6 (resonance frequencies excluded) EMC test Electromagnetic emission according to EN 61000-6-3 resource to the EU directives and is marked with C. Sensor J for die-cast Sensor inde standard mounting Sensor judice Aluminum Stocke length 502540 mm (2100 in.) <th>Output</th> <th></th>	Output	
Measured value Position, option: Multi-position measurement with a maximum of 2 magnets Measurement parameters Resolution Infinite Cycle time Typ. 0.3 ms < t < 2 ms (depending on stroke lengths)	Voltage	010 VDC or 100 VDC, 010 VDC and 100 VDC (controller input resistance RL: > 5 k Ω)
Measurement parameters Resolution Infinite Cycle time Typ. 0.3 ms < t < 2 ms (depending on stroke lengths)	Current	420 mA or 204 mA (minimum/maximum load: 0/500 Ω)
Resolution Infinite Cycle time Typ. 0.3 ms < t < 2 ms (depending on stroke lengths)	Measured value	Position, option: Multi-position measurement with a maximum of 2 magnets
Cycle time Typ. 0.3 ms < t < 2 ms (depending on stroke lengths) Linearity ≤ ±0.02 % F.S. (minimum ±90 μm) Repeatability ≤ ±0.005 % F.S. (minimum ±20 μm) Operating conditions Operating temperature -40+75 °C (-40+167 °F) Humidity 90 % relative humidity, no condensation Ingress protection ½ IP67 (if mating cable connector is correctly fitted) Shock test 100 g (single shock) IEC standard 60068-2-27 Vibration test 8 g/102000 Hz IEC standard 60068-2-6 (resonance frequencies excluded) EMC test Electromagnetic emission according to EN 61000-6-3 Electromagnetic immunity according to EN 61000-6-3 Electromagnetic immunity according to EN 61000-6-2 The sensor meets the requirements of the EU directives and is marked with €€. Magnet movement velocity Any Design/Material Zinc die-cast Sensor lid Zinc die-cast Sensor profile Aluminum Stroke length 502540 mm (2100 in.) Mechanical mounting Mechanical mounting Mounting instruction Please consult the technical drawings and the brief instructions (document number: 551684) Electrical connection Connection type M12 (5 pin) male connector	Measurement parameters	
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Repeatability ≤ ±0.005 % F.S. (minimum ±20 µm) Operating conditions Operating temperature −40+75 °C (−40+167 °F) Humidity 90 % relative humidity, no condensation Ingress protection 1.2 1967 (if mating cable connector is correctly fitted) Shock test 100 g (single shock) IEC standard 60068-2-27 Vibration test 8 g/102000 Hz IEC standard 60068-2-6 (resonance frequencies excluded) EMC test Electromagnetic emission according to EN 61000-6-3 Electromagnetic immunity according to EN 61000-6-3 Electromagnetic immunity according to EN 61000-6-2 The sensor meets the requirements of the EU directives and is marked with C €. Magnet movement velocity Any Design/Material Zinc die-cast Sensor lid Zinc die-cast Sensor profile Aluminum Stroke length 502540 mm (2100 in.) Mechanical mounting Any Mounting position Any Mounting position Any Electrical connection Please consult the technical drawings and the brief instructions (document number: 551684) Electrical connection consection type M12 (5 pin) male connector Connection type <td>Cycle time</td> <td>Typ. 0.3 ms < t < 2 ms (depending on stroke lengths)</td>	Cycle time	Typ. 0.3 ms < t < 2 ms (depending on stroke lengths)
Operating conditions Operating temperature -40+75 °C (-40+167 °F) Humidity 90 % relative humidity, no condensation Ingress protection ¹.² IP67 (if mating cable connector is correctly fitted) Shock test 100 g (single shock) IEC standard 60068-2-27 Vibration test 8 g/102000 Hz IEC standard 60068-2-6 (resonance frequencies excluded) EMC test Electromagnetic emission according to EN 61000-6-3 Electromagnetic immunity according to EN 61000-6-2 The sensor meets the requirements of the EU directives and is marked with €€. Magnet movement velocity Any Design/Material Sensor Ild Zinc die-cast Sensor profile Aluminum Stroke length 502540 mm (2100 in.) Mechanical mounting Mounting position Any Mounting position Any Mounting instruction Please consult the technical drawings and the brief instructions (document number: 551684) Electrical connection Connection type Connection type M12 (5 pin) male connector Operating voltage +24 VDC (-15/+20 %); UL recognition requires an approved power supply with energy limitation (UL 61010-1), or Class 2 rating a	Linearity	\leq ±0.02 % F.S. (minimum ±90 μ m)
Operating temperature −40+75 °C (−40+167 °F) Humidity 90 % relative humidity, no condensation Ingress protection ¹² IP67 (if mating cable connector is correctly fitted) Shock test 100 g (single shock) IEC standard 60068-2-27 Vibration test 8 g/102000 Hz IEC standard 60068-2-6 (resonance frequencies excluded) EMC test Electromagnetic emission according to EN 61000-6-2 The sensor meets the requirements of the EU directives and is marked with €€. Magnet movement velocity Any Design/Material Sensor lid Zinc die-cast Sensor profile Aluminum Stroke length 502540 mm (2100 in.) Mechanical mounting Mounting position Any Mounting instruction Please consult the technical drawings and the brief instructions (document number: 551684) Electrical connection Connection type M12 (5 pin) male connector Operating voltage +24 VDC (−15/+20 %); UL recognition requires an approved power supply with energy limitation (UL 61010-1), or Class 2 rating according to the National Electrical Code (USA)/Canadian Electrical Code. Ripple ≤ 0.28 V _{PP} Current consumption <t< td=""><td>Repeatability</td><td>\leq ±0.005 % F.S. (minimum ±20 μm)</td></t<>	Repeatability	\leq ±0.005 % F.S. (minimum ±20 μ m)
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Shock test 100 g (single shock) IEC standard 60068-2-27 Vibration test 8 g/102000 Hz IEC standard 60068-2-6 (resonance frequencies excluded) EMC test Electromagnetic emission according to EN 61000-6-3 Electromagnetic immunity according to EN 61000-6-2 The sensor meets the requirements of the EU directives and is marked with C €. Magnet movement velocity Any Design/Material Sensor lid Zinc die-cast Sensor profile Aluminum Stroke length 502540 mm (2100 in.) Mechanical mounting Mounting position Any Mounting instruction Please consult the technical drawings and the brief instructions (document number: 551684) Electrical connection Connection type Connection type M12 (5 pin) male connector Operating voltage +24 VDC (-15/+20 %); UL recognition requires an approved power supply with energy limitation (UL 61010-1), or Class 2 rating according to the National Electrical Code (USA)/Canadian Electrical Code. Ripple ≤ 0.28 V _{PP} Current consumption 50140 mA Dielectric strength 500 VDC (DC ground to machine ground) Polarity protection Up to -30 VDC	Humidity	90 % relative humidity, no condensation
Vibration test 8 g/102000 Hz IEC standard 60068-2-6 (resonance frequencies excluded) EMC test Electromagnetic emission according to EN 61000-6-3 Electromagnetic immunity according to EN 61000-6-2 The sensor meets the requirements of the EU directives and is marked with €. Magnet movement velocity Any Design/Materia! Sensor lid Zinc die-cast Sensor profile Aluminum Stroke length 502540 mm (2100 in.) Mechanical mounting Mounting position Mounting instruction Please consult the technical drawings and the brief instructions (document number: 551684) Electrical connection Connection type M12 (5 pin) male connector Operating voltage +24 VDC (−15/+20 %); UL recognition requires an approved power supply with energy limitation (UL 61010-1), or Class 2 rating according to the National Electrical Code (USA)/Canadian Electrical Code. Ripple ≤ 0.28 V _{PP} Current consumption 50140 mA Dielectric strength 500 VDC (DC ground to machine ground) Polarity protection Up to −30 VDC	Ingress protection 1,2	IP67 (if mating cable connector is correctly fitted)
EMC test Electromagnetic emission according to EN 61000-6-3 Electromagnetic immunity according to EN 61000-6-2 The sensor meets the requirements of the EU directives and is marked with C € . Magnet movement velocity Any Design/Material Sensor lid Zinc die-cast Sensor profile Aluminum Stroke length 502540 mm (2100 in.) Mechanical mounting Mounting position Any Mounting position Please consult the technical drawings and the brief instructions (document number: 551684) Electrical connection Connection type M12 (5 pin) male connector Operating voltage 24 VDC (-15/+20 %); UL recognition requires an approved power supply with energy limitation (UL 61010-1), or Class 2 rating according to the National Electrical Code (USA)/Canadian Electrical Code. Ripple ≤ 0.28 V _{PP} Current consumption 50140 mA Dielectric strength 500 VDC (DC ground to machine ground) Polarity protection Up to -30 VDC	Shock test	100 g (single shock) IEC standard 60068-2-27
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Design/Material Sensor lid Zinc die-cast Sensor profile Aluminum Stroke length 502540 mm (2100 in.) Mechanical mounting Mounting position Any Mounting instruction Please consult the technical drawings and the brief instructions (document number: 551684) Electrical connection Connection type M12 (5 pin) male connector Operating voltage +24 VDC (-15/+20 %); UL recognition requires an approved power supply with energy limitation (UL 61010-1), or Class 2 rating according to the National Electrical Code (USA)/Canadian Electrical Code. Ripple ≤ 0.28 V _{PP} Current consumption 50140 mA Dielectric strength 500 VDC (DC ground to machine ground) Polarity protection Up to -30 VDC	EMC test	Electromagnetic immunity according to EN 61000-6-2
Sensor lid Zinc die-cast Sensor profile Aluminum Stroke length 502540 mm (2100 in.) Mechanical mounting Mounting position Any Mounting instruction Please consult the technical drawings and the brief instructions (document number: 551684) Electrical connection Connection type M12 (5 pin) male connector Operating voltage +24 VDC (-15/+20 %); UL recognition requires an approved power supply with energy limitation (UL 61010-1), or Class 2 rating according to the National Electrical Code (USA)/Canadian Electrical Code. Ripple ≤ 0.28 V _{PP} Current consumption 50140 mA Dielectric strength 500 VDC (DC ground to machine ground) Polarity protection Up to -30 VDC	Magnet movement velocity	Any
Sensor profile Aluminum Stroke length 502540 mm (2100 in.) Mechanical mounting Mounting position Any Mounting instruction Please consult the technical drawings and the brief instructions (document number: 551684) Electrical connection Connection type M12 (5 pin) male connector Operating voltage +24 VDC (−15/+20 %); UL recognition requires an approved power supply with energy limitation (UL 61010-1), or Class 2 rating according to the National Electrical Code (USA)/Canadian Electrical Code. Ripple ≤ 0.28 V _{PP} Current consumption 50140 mA Dielectric strength 500 VDC (DC ground to machine ground) Polarity protection Up to −30 VDC	Design/Material	
Stroke length 502540 mm (2100 in.) Mechanical mounting Mounting position Any Mounting instruction Please consult the technical drawings and the brief instructions (document number: 551684) Electrical connection Connection type M12 (5 pin) male connector Operating voltage +24 VDC (−15/+20 %); UL recognition requires an approved power supply with energy limitation (UL 61010-1), or Class 2 rating according to the National Electrical Code (USA)/Canadian Electrical Code. Ripple ≤ 0.28 V _{PP} Current consumption 50140 mA Dielectric strength 500 VDC (DC ground to machine ground) Polarity protection Up to −30 VDC	Sensor lid	Zinc die-cast
Mechanical mounting Mounting position Any Mounting instruction Please consult the technical drawings and the brief instructions (document number: 551684) Electrical connection Connection type M12 (5 pin) male connector Operating voltage +24 VDC (-15/+20 %); UL recognition requires an approved power supply with energy limitation (UL 61010-1), or Class 2 rating according to the National Electrical Code (USA)/Canadian Electrical Code. Ripple ≤ 0.28 V _{PP} Current consumption 50140 mA Dielectric strength 500 VDC (DC ground to machine ground) Polarity protection Up to -30 VDC	Sensor profile	Aluminum
Mounting positionAnyMounting instructionPlease consult the technical drawings and the brief instructions (document number: 551684)Electrical connectionConnection typeM12 (5 pin) male connectorOperating voltage $+24 \text{ VDC } (-15/+20 \text{ %})$; UL recognition requires an approved power supply with energy limitation (UL 61010-1), or Class 2 rating according to the National Electrical Code (USA)/Canadian Electrical Code.Ripple $\leq 0.28 \text{ V}_{PP}$ Current consumption 50140 mA Dielectric strength $500 \text{ VDC } (DC \text{ ground to machine ground})$ Polarity protectionUp to -30 VDC	Stroke length	502540 mm (2100 in.)
Mounting instruction Please consult the technical drawings and the brief instructions (document number: 551684) Electrical connection Connection type M12 (5 pin) male connector Operating voltage +24 VDC (-15/+20 %); UL recognition requires an approved power supply with energy limitation (UL 61010-1), or Class 2 rating according to the National Electrical Code (USA)/Canadian Electrical Code. Ripple ≤ 0.28 V _{PP} Current consumption 50140 mA Dielectric strength 500 VDC (DC ground to machine ground) Polarity protection Up to -30 VDC	Mechanical mounting	
Electrical connection Connection type M12 (5 pin) male connector Operating voltage +24 VDC (-15/+20 %); UL recognition requires an approved power supply with energy limitation (UL 61010-1), or Class 2 rating according to the National Electrical Code (USA)/Canadian Electrical Code. Ripple ≤ 0.28 V _{PP} Current consumption 50140 mA Dielectric strength 500 VDC (DC ground to machine ground) Polarity protection Up to -30 VDC	Mounting position	Any
Connection type M12 (5 pin) male connector Operating voltage $+24$ VDC ($-15/+20$ %); UL recognition requires an approved power supply with energy limitation (UL 61010-1), or Class 2 rating according to the National Electrical Code (USA)/Canadian Electrical Code. Ripple ≤ 0.28 V _{PP} Current consumption 50140 mA Dielectric strength 500 VDC (DC ground to machine ground) Polarity protection Up to -30 VDC	Mounting instruction	Please consult the technical drawings and the brief instructions (document number: <u>551684</u>)
Operating voltage $+24 \text{ VDC } (-15/+20 \text{ %});$ UL recognition requires an approved power supply with energy limitation (UL 61010-1), or Class 2 rating according to the National Electrical Code (USA)/Canadian Electrical Code. Ripple ≤ 0.28 V_{PP} Current consumption 50140 mA Dielectric strength $500 \text{ VDC } (DC \text{ ground to machine ground})$ Polarity protection Up to -30 VDC	Electrical connection	
or Class 2 rating according to the National Electrical Code (USA)/Canadian Electrical Code. Ripple $\leq 0.28 \text{ V}_{PP}$ Current consumption 50140 mA Dielectric strength 500 VDC (DC ground to machine ground) Polarity protection Up to -30 VDC	Connection type	M12 (5 pin) male connector
Current consumption 50140 mA Dielectric strength 500 VDC (DC ground to machine ground) Polarity protection Up to -30 VDC	Operating voltage	
Dielectric strength 500 VDC (DC ground to machine ground) Polarity protection Up to -30 VDC	Ripple	$\leq 0.28 \text{ V}_{PP}$
Polarity protection Up to -30 VDC	Current consumption	50140 mA
	Dielectric strength	500 VDC (DC ground to machine ground)
Overvoltage protection	Polarity protection	Up to –30 VDC
	Overvoltage protection	Up to 36 VDC

^{1/} The IP rating is not part of the UL recognition



^{2/} The IP rating IP67 is only valid for the sensors electronics housing, as water and dust can get inside the profile.

TECHNICAL DRAWING

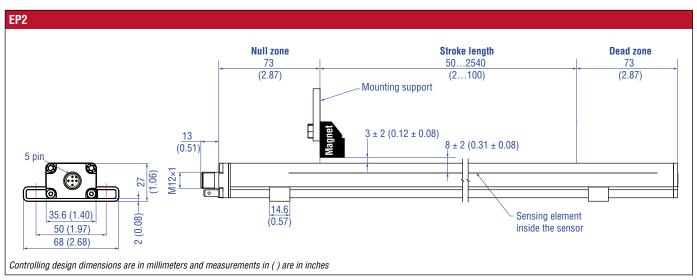


Fig. 3: E-Series EP2 with block magnet

CONNECTOR WIRING

D34		
Signal + power supply		
M12 male connector (A-coded)	Pin	Function
	1	+24 VDC (-15 / +20 %)
0	2	Output 1
(990)	3	DC Ground (0 V)
	4	Output 2
View on sensor	5	DC Ground

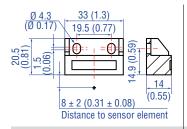
Fig. 4: Connector wiring D34 (M12 connector)

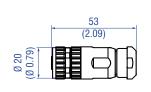


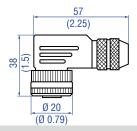
FREQUENTLY ORDERED ACCESSORIES – Additional options available in our Accessories Guide 551444

Position magnet

Cable connectors*







Block magnet L Part no. 403 448

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

Material: GD-Zn, Ni

magnet
Weight: Approx. 20 g
Fastening torque for M4 screws: 1 Nm
Operating temperature:

Material: Plastic carrier with hard ferrite 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

Contact insert: CuZn Cable Ø: 5...8 mm (0.2...0.31 in.) Wire: 0.75 mm² (18 AWG)

Termination: Screw; max. 0.75 mm²

-40...+75 °C (-40...+167 °F)

Wire: 0.75 mm² (18 AWG)
Operating temperature:
-25...+85 °C (-13...+185 °F)

This magnet may influence the sensor performance specifications for some applications.

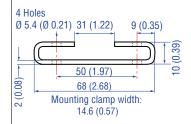
Ingress protection: IP67 (correctly fitted)
Fastening torque: 0.4 Nm

Cord sets

Mouting clamp







Cable with M12 A-coded female connector (5 pin), straight – pigtail Part no. 370 673

Cable with M12 A-coded female connector (5 pin), angled – pigtail Part no. 370 675

Mounting clamp Part no. 403 508

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) Material: PUR jacket Features: Shielded Cable length: 5 m (16.4 ft) Ingress protection: IP67 (correctly fitted) Operating temperature: -25...+80 °C (-13...+176 °F)

Material: Stainless steel 1.4301/1.4305 (AISI 304/303)

*/ Follow the manufacturer's mounting instructions

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



Temposonics® EP2 Analog

Data Sheet

ORDER CODE



a | Sensor model

E P 2 Smooth profile

b Stroke length

	_					
Χ	Х	Х	Х	M	0050.	2540 mm

Standard stroke length (mm)Ordering steps50... 500 mm25 mm500... 2540 mm50 mm

X X X X X U 001.0...128.0 in.

Standard stroke length (in.) Ordering steps

2... 20 in. 1.0 in. 2.0 in.

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

c | Connection type

D 3 4 M12 (5 pin) male connector

d Operating voltage

1 +24 VDC (-15/+20 %)

e Output

Voltage

V 0 1 010 VDC (1 output channel with 1 position magne

V 1 1 1 10...0 VDC (1 output channel with 1 position magnet)

V 0 2 0...10 VDC (2 output channels with 2 position magnets)

V 1 2 10...0 VDC (2 output channels with 2 position magnets)

V 0 3 0...10 VDC and 10...0 VDC (2 output channels with 1 position magnet)

Current

Α	0 1	420 mA (1 output channel with 1 position magnet)
---	-----	--

A 1 1 20...4 mA (1 output channel with 1 position magnet)

A 0 2 4...20 mA (2 output channels with 2 position magnets)
 A 1 2 20...4 mA (2 output channels with 2 position magnets)

DELIVERY



- Sensor
- 2 mounting clamps up to 1250 mm (50 in.) stroke length + 1 mounting clamp for each 500 mm (20 in.) additional stroke length

Accessories have to be ordered separately.

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

Sold & Serviced By:







Toll Free Phone (877) SERV098 www.electromate.com sales@electromate.com

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