Temposonics®

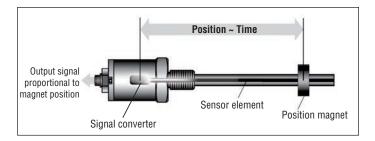
Absolute, Non-Contact Position Sensors

Data Sheet R-Series Rod Model RS

Temposonics® RS Stroke length 50...7600 mm



- Rugged industrial sensor
- Linear and absolute measurement
- Contactless sensing with highest durability
- Analog / SSI / CANbus / DeviceNet / Profibus / EtherCAT
- Sealed IP68 / IP69K



The extremely robust **Temposonics® RS** sensor with super shield housing ensures long-term linear position measurement in the harshest environments. Hermetically sealed with a housing completely made of stainless steel, it meets the requirements of protection modes IP68 and IP69K and is reliably shielded against corrosion and penetration of dirt and water.

Due to non-contact measuring technology, sensor integration into a hermetically sealed housing is possible. A position magnet moves along the outside of the pressure-resistant sensor pipe and marks the position without mechanical contact. For level measurement, an optional float can be used. The modular sensor cartridge design enables the customer to choose the specific sensor output configurations to be installed within the super shield housing to best fit their application requirements. The measuring accuracy and all technical data correspond to the features of the sensor selected inside the housing. A wide choice of interfaces (Analog, Profibus, SSI, CANbus, EtherCAT) is available. Moreover, integration of ATEX-certified and intrinsically safe sensors is possible with the protective housing.

R-Series RS

Temposonics® RS sensors are made to fit Temposonics® R-Series with analog and digital outputs. Fixed cable and connector versions can be used on the sensor side. When using standard sensors in this housing, you get a cost efficient solution for use in rugged applications. Several design combinations are available to fit your application: M18 or ¾"UNF mounting flange thread, various housing length, and single, dual or triple cable glands.

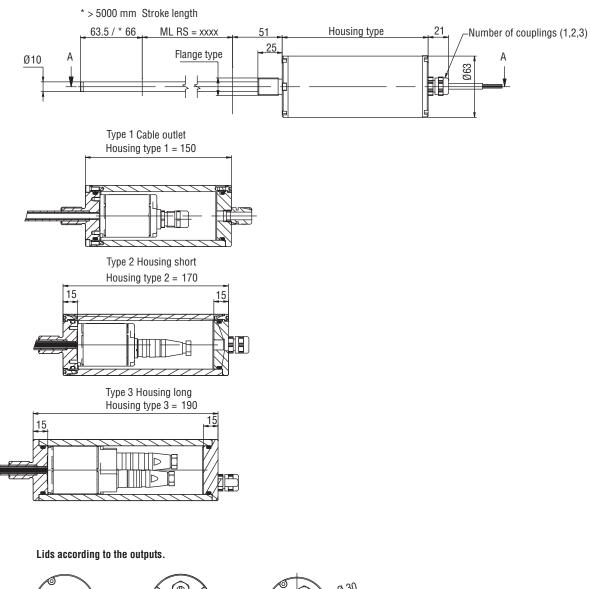
Technical Data (depending on selected interface)

Input		
Stroke length	507600 mm	
Output		
Interfaces	Analog, SSI, CANbus, Profibus, EtherCAT	
Operating conditions		
Dew point, humidity	100% rel. humidity	
Ingress protection	IP68 / IP69K	
Design, material		
Sensor head	303/304 Stainless steel 316L (1.4404) on request	
Sensor stroke	303/304 (1.4305) Stainless steel 316L on request	
Pressure rating	350 bar, 700 bar peak	
Position magnet	Ring magnet or magnet float	
Installation		
Mounting position	Any orientation	
Torque moment	< 50 Nm	
Rod	Threaded flange M18 x 1.5	
	or ¾"-16 UNF-3A, Hex nut M18	
Electrical connection		
Connection type	Integral cable pigtail termination	

Info:

For detailed technical data and electrical connection for the outputs please see data sheets: R-Series Analog, SSI, CANbus, Profibus, EtherCAT.

R-Series RS



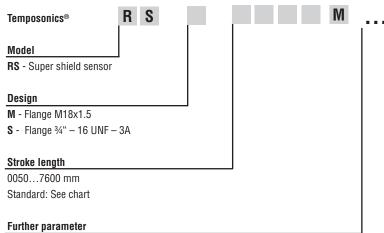




Please use a standard strap wrench to mount the sensor.

RS

R-Series RS



See data sheets R-Series according to the required output Analog / SSI / CANbus / Profibus / EtherCAT

Magnets and accessories must be ordered separately.

Accessories	Part No.
Ring magnet OD33, standard	201 542-2
U-magnet OD33	251 416-2
Ring magnet OD30.5	402 316
Position magnet 70x37.5	252 185
Block magnet	403 448

Stroke Length			
Stroke Length	Ordering Steps		
< 500 mm	5 mm		
500750 mm	10 mm		
7501000 mm	25 mm		
10002500 mm	50 mm		
25005000 mm	100 mm		
> 5000 mm	250 mm		



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