550780 C

Product Specifications





Features

- Available with the Temposonics R Series and L Series Position Sensors
- Explosion-proof
- Dust/Ignition Proof
- Weatherproof
- 2-year Warranty



Material:	Stainless steel
	304L (1.4306)
Mounting Flange:	M18 x 1.5 (metric)
	or 3/4in 16 UNF-3A (US std.)
Operating Pressure:	350 bar static, 690 bar spike
	(5000 psi static, 10,000 psi spike)

R SERIES POSITION SENSOR

(Reference RH Product Specification for complete details)

Resolution:	Up to 0.002 mm (0.00008 in.)*	
Non-Linearity:	$< \pm 0.01\%$ of full stroke or ± 0.04 mm (0.0016 in.),	
	whichever is greater*	
Repeatability:	< ± 0.001% of full scale or ± 0.0025 mm (0.0001 in.),	
	whichever is greater	
Hysteresis:	< 0.004 mm (0.00016 in.)	
Output Styles:	Analog, CANbus, DeviceNet [®] , SSI	
Measuring Range:	25 to 7620 mm (1to 300 in.)*	
Ingress Protection:	IP 67	

L SERIES POSITION SENSORS

(Reference LH Product Specification for complete details)

Resolution:	Digital: 1 ÷ [gradient x crystal freq. (MHz) x	
	circulation]	
Non-Linearity**:	± 0.02% or ± 0.05 mm (± 0.002 in.),	
	whichever is greater. 0.002 in. is the minimum	
	absolute linearity and varies with sensor model	
Repeatability:	Equal to resolution	
Hysteresis:	< 0.02 mm (0.0008 in.)***	
Output Styles:	Digital Only: Start/Stop or PWM	
Measuring Range:	25 to 7620 mm (1 to 300 in.)	
Ingress protection:	IP 67	





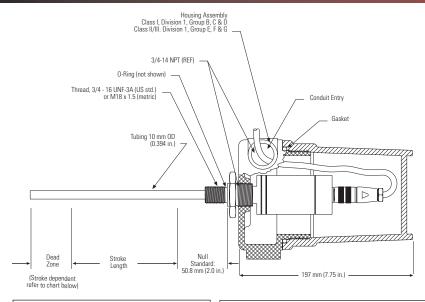
All specifications are subject to change. Please contact MTS for specifications critical to your needs.

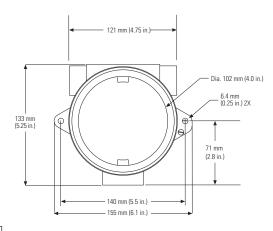
For additional information, refer to (www.mtssensors.com).

^{*} Varies with model

^{**} Non-linearity increases with multiple circulations.

^{***} Power supply dependent





Stroke-dependent Dead Zones			
Stroke Length	Dead Zone		
25 - 5000 mm (1 - 197 in.)	63.5 mm (2.5 in.)		
5005 - 7620 mm (197.1 - 300 in.)	66 mm (2.6 in)		

All dimensions shown are for reference only.

NOTES FOR ORDERING:

Reference the RH and LH* Product Specification brochures for "How to Order" model number information.**
Use the following **Housing Style** options to indicate appropriate TempoGuard model.

Housing Style

- K = US Customary threads, raised-faced hex, explosion-proof housing and pressure tube
- Z = US Customary threads, flat-faced hex, explosion-proof housing and pressure tube
- J = Metric threads, raised-faced hex, explosion-proof housing and pressure tube
- W = Metric threads, flat-faced hex, explosion-proof housing and pressure tube
- * LH models available with Start/Stop or PWM outputs only
- ** Only the following connector options are available for their appropriate output styles: D6, D60, D70, D51.

 R Series sensors having stroke lengths over 3500 mm (137.8 in.), [2540 mm (100.0 in.) for CANbus], have a longer electronics housing, and therefore, require the integral cable option, or the use of non-standard extension cable connectors to still fit inside the TempoGuard housing.



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