

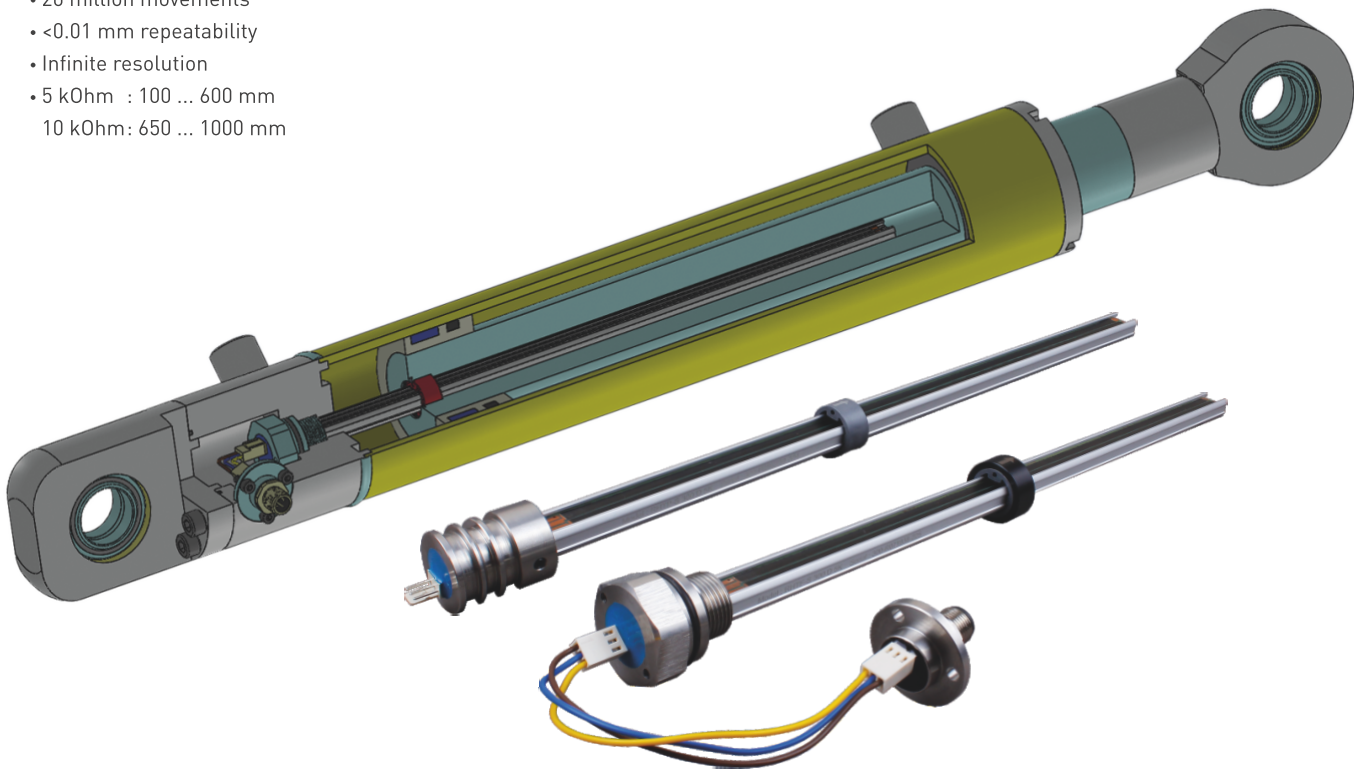
HYDRAULIC IN-CYLINDER POSITION SENSORS



RHT-F / RHT-P

Hydraulic In-Cylinder Linear Potentiometer

- Single sensor or double sensor for redundancy
- Measuring range 100 - 1000 mm
- 20 million movements
- <0.01 mm repeatability
- Infinite resolution
- 5 kOhm : 100 ... 600 mm
- 10 kOhm: 650 ... 1000 mm



S model
Single sensor

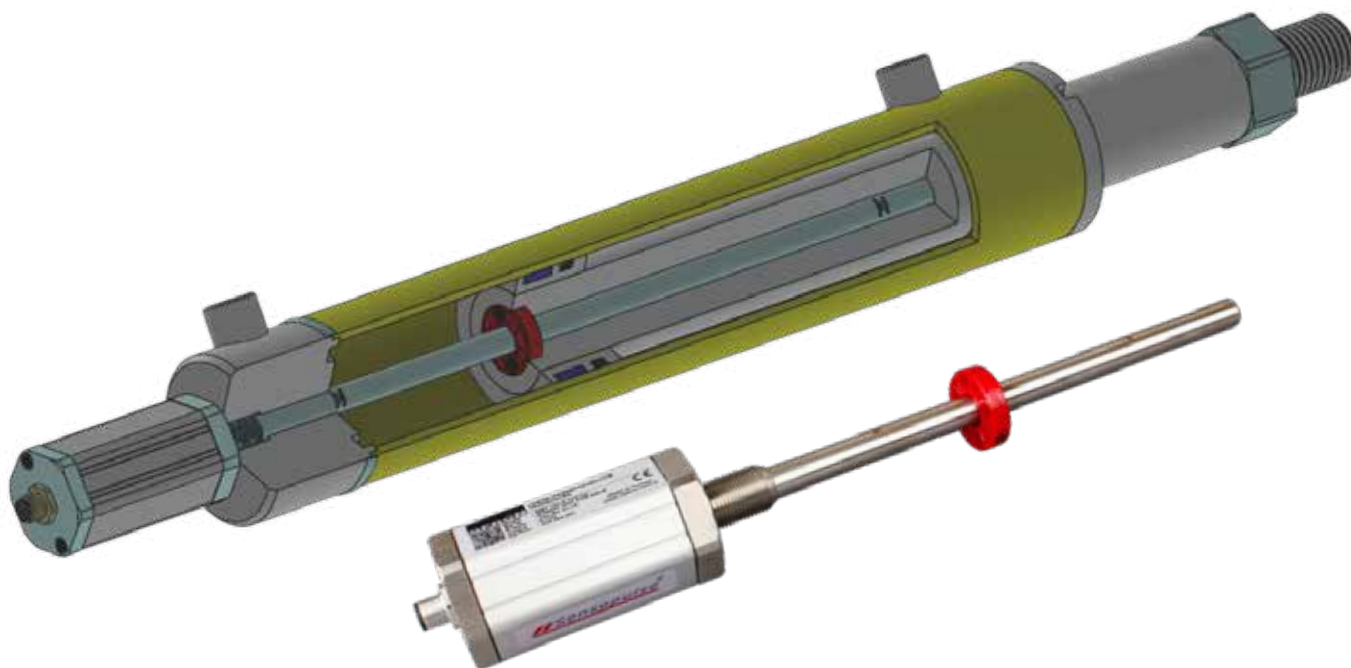
R model
Double sensor

Technical Specifications	
Measurement stroke	100 to 1000 mm
Linearity	± %1.0
Repeatability	< 0.2 mm
Resolution	Infinite
Resistance	5 kOhm : 100 ... 600 mm 10 kOhm : 650 ... 1000 mm
Resistance tolerance	± %20
Load resistance	100 kOhm min.
Recommended cursor current	< 1 µA
Permissible applied voltage	28 VDC max.
Displacement speed	< 2 m/s
Mechanical life	> 20 million movement
Case dimensions	Ø15
Case material	Anodized aluminium
Flange material	Stainless steel (AISI303)
Operating temperature	-20°C ... +80°C
Storage temperature	-30°C ... +90°C

Model	Output type	Measurement stroke (mm)	Linearity (%)	Resistance (kOhm)
(example) RHTF	-S	500	D	5K
RHTF (Flange type)	-S : Single sensor	100 ... 1000 mm	D: ± %1.0	5K: 5 kOhm
RHTP (Piston type)	-R : Double sensor (redundancy)			10K: 10 kOhm

MST

In-Cylinder Non-Contact Magnetostrictive Position Measurement Sensors



Technical Specifications

Measurement stroke	100 to 5000 mm
Resolution	16 bit DAC output
Repeatability	±0,005% (full scale)
Output	0 ... 10 V, 4 ... 20 mA, 0 ... 20 mA, 10 ... 0 V, 20 ... 4 mA, 20 ... 0 mA
Power supply	24 VDC ±10%
Displacement speed	< 10 m/s
Sampling rate	up to 2 kHz (depending on stroke length)
Max. consumption	50 mA - 90 mA (depending on stroke length)
Max. output noise	< 5 mVpp
Max. output value	10.5 Volt
Linearity	±0,02% full scale (min. 100 µm)
Update time	0,5 ms up to 1000 m 0,8 ms up to 2000 m
Reverse polarity protection	Var [-30 VDC'e kadar]
Overvoltage protection	Var [40 VDC'e kadar]
Pressure rating	< 500 bar
Mounting	M18 x 1.5
Housing material	Profile: Anodized aluminium, Tube: Stainless steel, Caps: Stainless steel
IP protection	IP 65

Model	Measurement stroke	Resolution	Output	Cursor	Connector / Cable
MST	900	A	V10	C01	C2
MST	100 ... 5000 mm	A: 16 bit	V10: 0 - 10 V V01: 10 - 0 V I40 : 4 - 20 mA I20 : 0 - 20 mA I04 : 20 - 4 mA	V11: 0 - 10 V / 10 - 0 V I41 : 4 - 20 mA / 20 - 4 mA I21 : 0 - 20 mA / 20 - 0 mA	C01: Ø33 magnet C02: Ø25 magnet C03: Ø33 semi circular magnet F02: Ø42 Floater F03: Ø50 Floater

1M: 1 meter cable
C2 : 4 pin connector
C5 : 5 pin connector
C8 : 8 pin connector



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