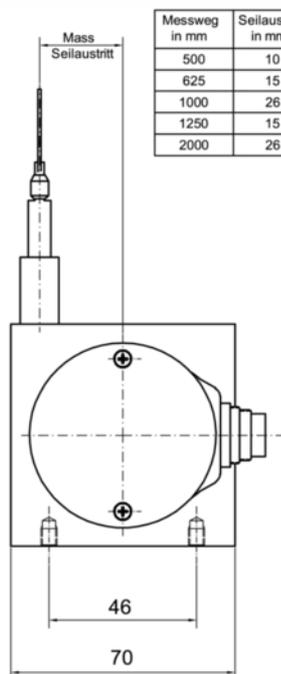


Series S501T / Wire Sensor with Potentiometer and Transducer

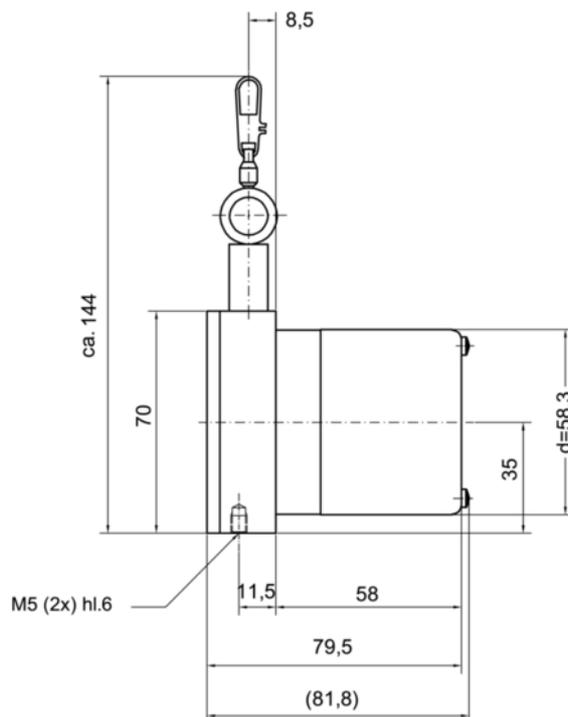
- Strokes 500, 625, 1000, 1250, 2000 mm
- With potentiometer and transducer voltage/current
- Solid housing of anodized aluminium
- Protection class IP65
- With Cal-Tool-software for taring on request



Drawing



Messweg in mm	Seilaustritt in mm
500	10
625	15
1000	26
1250	15
2000	26



Series S501T / Wire Sensor with Potentiometer and Transducer

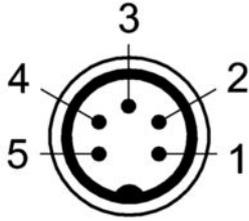
Electrical Value	
Stroke	500, 625, 1000, 1250, 2000 mm
Endocer	Hybrid-Multiturn Potentiometer HH1710 resp. HH1705
Independent Linearity Tolerance Encoder	$\pm 0,1\%$ FS (Full Scale)
Independent Linearity Tolerance Wire Sensor	$\pm 0,25\%$ FS
Resolution	Auflösung der internen Elektronik = 14,5 bit Genauigkeit (typ.) = 13 bit
Sampling Rate	300 Hz
Hysteresis, typical	$\pm 0,1\%$ FS
Operating Voltage	12 V - 30 V
Max. Power Consumption	5 mA - Voltage Output 25 mA - Current Output
Load Resistance	3 kOhm min. / Voltage Output
Load Resistance	100 Ohm - 500 Ohm / Current Output
Load Capability	0 - 500 μ F
Temperature Coefficient of Signal	150 ppm/K 50 ppm/K, typical Voltage Output 100 ppm/K, typical Current Output

Mechanical Data	
Max. Displacement Speed	0,05 m/s
Max. Acceleration to Deformation of Wire	3 g
Housing Material	Aluminium
Wire Material	Steel, PA-coated
Maximum Tightness	4 N
Minimum Pull-In Force	1,5 N
Stopper Strength Encoder	≈ 90 N
Weight	≈ 500 g

Ambient Conditions	
Operating Temperature	0 ... +60 °C
Storage Temperature	-20 ... +70 °C
Relative Humidity	90% non-condensing
Protection Class	IP65
Shock	10 g / 0,1 ms
Vibration	20 Hz - 2 kHz / 10 g

Series S501T / Wire Sensor with Potentiometer and Transducer

Wiring



PIN 1	Supply
PIN 2	Output
PIN 3	GND
PIN 4	n.c.
PIN 5	n.c.
Shield	in connector / housing

Accessories

- Plug, straight: Type SW61, 5-pole, IP67 (Part No. 110906)
- Plug, angled: Type SKW, 5-pole, IP67 (Part No.114462)

Order Code

Series	Stroke	Signal	Linearity Tolerance
S501T	500 625 1000 1250 2000	2410 = 0-10 V 2420 = 0-20 mA 2442 = 4-20 mA	L0,25%
Example:	S501T 2000 2410 L0,25% Series S501T, stroke 2000 mm, supply 24 VDC (between 12V - 30V possible), signal 0-10V, independent linearity tolerance $\pm 0,25\%$		

The specifications and information in this datasheet cannot consider all special demands that are caused by the application. Because of this, they are no general description of the properties of the product.
November 2009. All specifications are subject to change without notice.