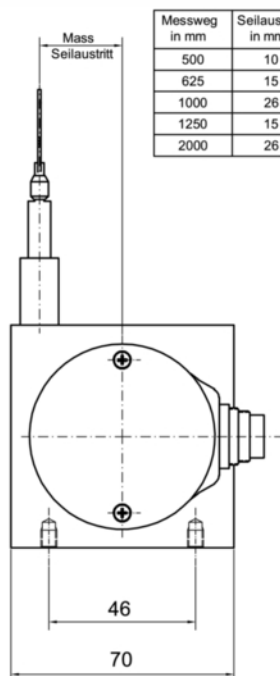


Series S501P / Wire Sensor with Potentiometer

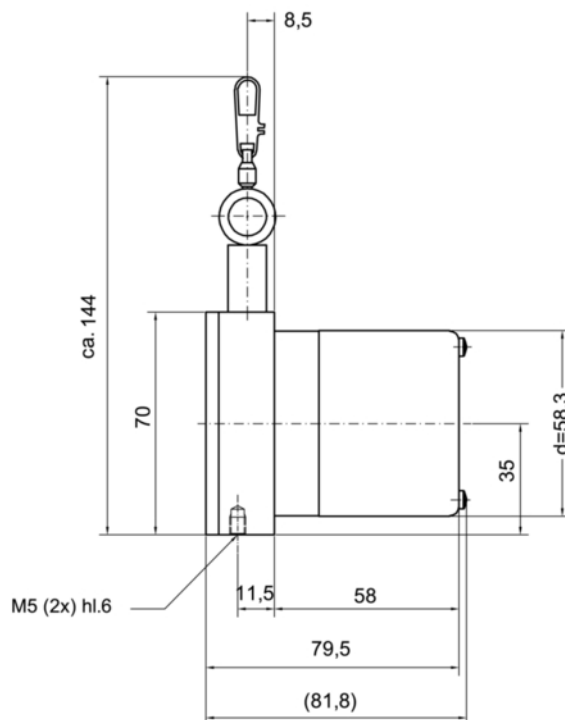
- Strokes 500, 625, 1000, 1250, 2000 mm
- With a Hybrid-Multiturn-Potentiometer
- Solid Housing of Anodized Aluminium
- Protection Class IP 65



Drawing



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



Series S501P / Wire Sensor with Potentiometer

Electrical Data

Stroke	500, 625, 1000, 1250, 2000 mm
Encoder	Potentiometer HH1710 resp. HH1705
Independent Linearity Tolerance Encoder	$\pm 0,1\%$ FS (Full Scale)
Independent Linearity Tolerance Wire Sensor	$\pm 0,25\%$ F.S.
Resolution	quasi infinite
Hysteresis, typical	$\pm 0,1\%$ F.S.
Wiper Current	0,1 mA recommended
Supply Voltage	max. 42 V DC
Temperature Coefficient of Signal	≈ 5 ppm/K

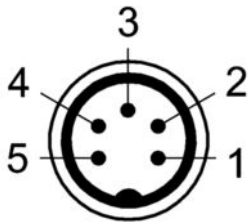
Mechanical Data

Max. Displacement Speed	0,05 m/s
Max. Acceleration to Deformation of Wire	3 g
Housing Material	anodized Aluminium
Wire Material	Steel, PA-coated
Maximum Tightness	4 N
Minimum Pull-In Force	1,5 N
Stopper Strength Encoder	≈ 90 N
Weight	≈ 460 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

Wiring



PIN 1	(GND)
PIN 2	Wiper (Signal)
PIN 3	Supply
PIN 4	n.c.
PIN 5	n.c.
Shield	on connector / housing

Series S501P / Wire Sensor with Potentiometer

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	Resistance Value	Linearity Tolerance
S501P	500 625 1000 1250 2000	R5k R10k	LO,25%
Example:	S501P 2000 R5k LO,25% Series S501P, stroke 2000 mm, resistance value 5 kOhm, 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.