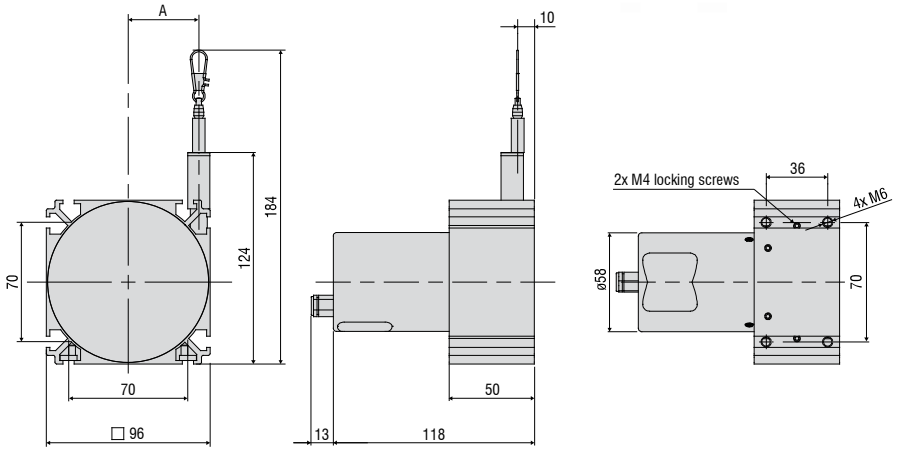
Industrial draw-wire sensors
wireSENSOR P96 analog

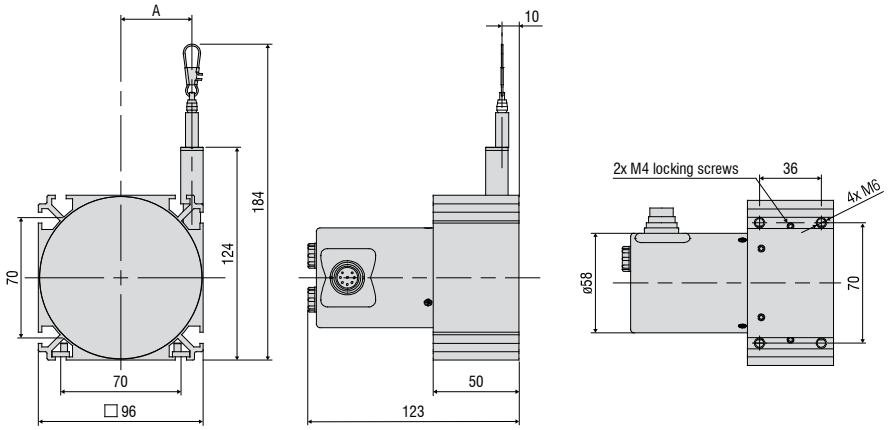
- Robust aluminum profile housing
- Customer-specific designs
- Potentiometer, current or voltage output

Output P



Measuring range (mm)	A (mm)
2000	approx. 32
2500	approx. 41.4

Output U/I



All dimensions in mm, not to scale

Model		WDS-2000-P96	WDS-2500-P96
Measuring range		2000 mm	2500 mm
Analog output [1]		Potentiometer, current, voltage	
Resolution		towards infinity	
Linearity	≤ ±0.1% FSO	≤ ±2 mm	≤ ±2.5 mm
Sensor element		Hybrid potentiometer	
Wire extension force (max.)		approx. 11 N	approx. 9 N
Wire retraction force (min.)		approx. 7.5 N	approx. 5.5 N
Wire acceleration (max.)		approx. 8 g	
Material	Housing	Aluminum	
	Measuring wire	Polyamide-coated stainless steel (ø 0.8 mm)	
Wire mounting		Wire clip	
Installation		Mounting grooves on the sensor housing	
Temperature range	Storage	-20 … +80 °C	
	Operation	-20 … +80 °C	
Connection	Potentiometer	integrated cable, axial, length 1 m	
	Current, voltage	pluggable cable via 8-pin flange connector (DIN45326), radial	
Shock (DIN EN 60068-2-27)		50 g / 10 ms in 3 axes, 1000 shocks each	
Vibration (DIN EN 60068-2-6)		20 g / 20 … 2000 Hz in 3 axes, 10 cycles each	
Protection class (DIN EN 60529)		IP65 [2]	
Weight		approx. 1.1 kg	

FSO = Full Scale Output

[1] Specifications for analog outputs from page 58 onwards.

[2] With plug version only when connected.

Article designation

WDS - 2000 - P96 - CA - P

- **P**: Output type:
  P: potentiometer (with CA connection)
  U: voltage (with connection SR)
  I: current (with connection SR)
- **CA**: Connection:
  SR: radial plug
  CA: integrated cable, axial, 1 m
- **P96**: P96 series
- **2000**: Measuring range in mm