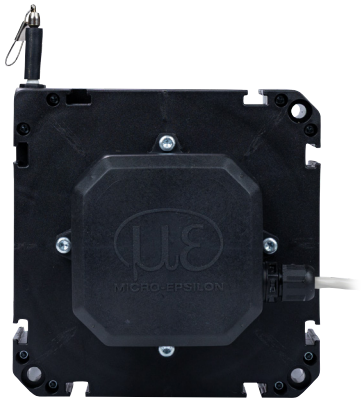
wireSENSOR WPS-K140

Draw-wire sensor for industrial series integration

- Robust and compact sensor design
- Large temperature range from -40 to +85 °C
- Potentiometer, current or voltage output



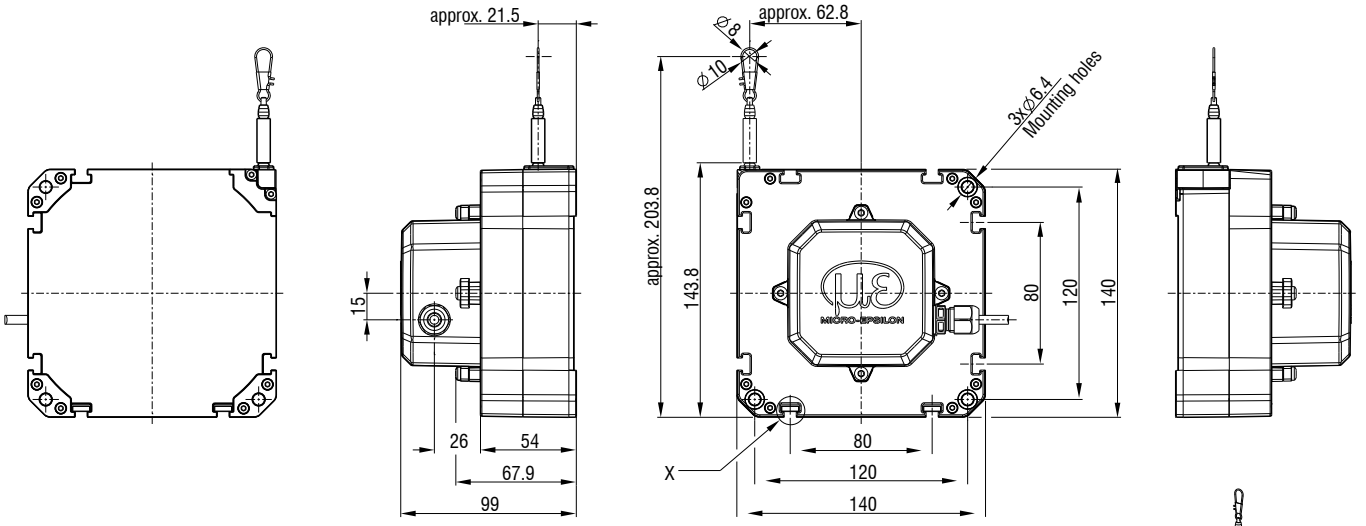
The wireSENSOR WPS-12000-K140 is a compact draw-wire displacement sensor for measuring ranges up to 12,000 mm. Its compact glass-fiber-reinforced plastic housing and modular design make it particularly suitable for series production and OEM applications. This enables customer-specific adaptations to be implemented quickly and flexibly. The separate spring and drum compartments support reliable use both indoors and outdoors, even under challenging environmental conditions. Potentiometer, current, and voltage output versions are available.

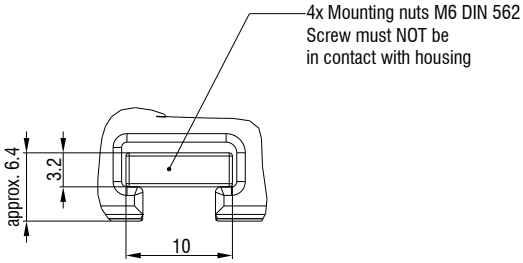
Model		WPS-12000-K140
Measuring range		12000 mm
Analog output		Potentiometer, current, voltage
Resolution		virtually infinite
Linearity [1]	≤ ±0.5 % FSO [2]	≤ ±60 mm
Sensor element		Hybrid potentiometer
Wire extension force (max.)		ca. 10 N
Wire retraction force (min.)		ca. 2 N
Wire acceleration (max.)		ca. 5g
Material	Housing	Glass-fiber reinforced plastic
	Measuring wire	Polyamide-coated stainless steel (ø 0.8 mm)
Wire mounting		Wire clip
Mounting		Through-bores Ø 6.4 mm and mounting nuts (for M6) on the sensor housing
Temperature range	Storage	-40 … +85 °C
	Operation	-40 … +85 °C
Connection		M12 (5-pin) / integrated cable, radial, length 1 m
Shock (DIN EN 60068-2-27)		50g / 8 ms in 3 axes, 2 directions and 1000 shocks each
Vibration (DIN EN 60068-2-6)		5g / 10 … 150 Hz in 3 axes and 20 cycles each
Protection class (DIN EN 60529)		IP67 / IP69K
Weight		approx. 1.3 kg

[1] Versions with improved linearity are available upon request
[2] FSO = Full Scale Output

Dimensions:

WPS-1200-K140





All dimensions in mm, not to scale