



# Wire Potentionmeter

## Wire Potentiometer

for

## Measuring linear motions

Wire mechanics with analog sensor

- High traverse speed
- High acceleration
- High-resistance stainless steel wire
- Nonwearing wire exit by diamond-polished ceramic guide
- Insensitive to environmental impact by titanium-anodized aluminum housing
- Easy mounting with two screws



## Typical Technical Data

### Mechanical specifications

Measurement range:	250 mm	500 mm	1250 mm
Extension force F <sub>min</sub> :	5.2 N	5.2 N	3.8 N
	F <sub>max</sub> :	6.3 N	7.3 N
Max. speed:	8 m/s	8 m/s	10 m/s
Max. acceleration:	85 m/s <sup>2</sup>	85 m/s <sup>2</sup>	100 m/s <sup>2</sup>

Linearity:	0.1% of the measuring range
Protection standard (sensor):	IP65
Materials:	housing: titanium-anodized aluminum wire: stainless steel Ø 0.5 mm
Weight:	approx. 330 g
Lifetime	> 2 million full cycles

### Electrical specifications

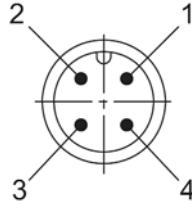
Output:	0 ... 10 V - galvanically separated
Supply voltage:	12 ... 30 V DC
Max. current consumption:	22.5 mA (without load)
Reverse polarity protection:	yes
Operating temperature:	-20 ... +60 °C

<b>Art. No.:</b>	
<b>250 mm</b>	<b>16251</b>
<b>500 mm</b>	<b>16252</b>
<b>1250 mm</b>	<b>16253</b>

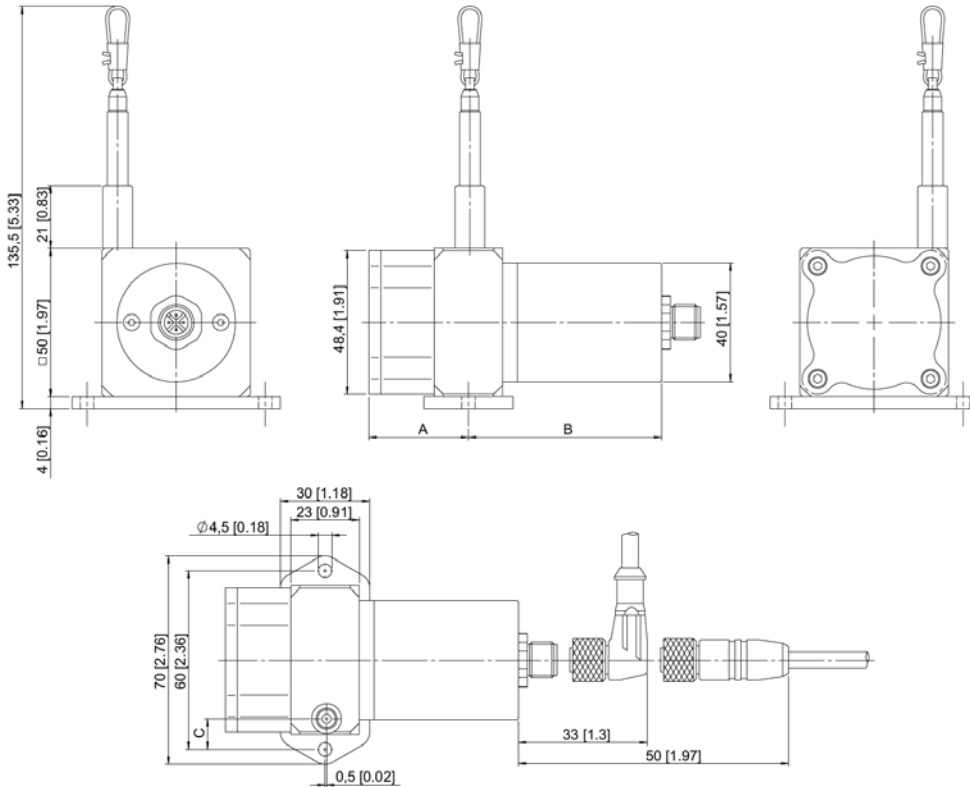
# WIRE POTENTIOMETER

## Pin Assignment


Pin	Cable Color	Signal
Pin 1	brown	V+
Pin 2	white	signal
Pin 3	blue	GND
Pin 4	black	GND signal



## Dimensions



## Warning Notes:

- It is imperative to pay attention to a controlled return travel of the wire.
-  **The wire must not snap back out of control! Danger of injury / danger of damage or destruction of the sensor.**
- Exceeding the maximum extension length of the draw wire will cause damage to the wire and the mechanics.
- It is imperative to pull out the wire perpendicular to the wire exit to avoid damage and reduction of the lifetime.
- Do not crimp or bend the wire to ensure correct function.

**ATTENTION: Defects due to improper operation are not covered by warranty/guaranty.**

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