



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 _{min} :	5.2 N	5.2 N	3.8 N
	F _{max} :	6.3 N	7.3 N
Max. speed:	8 m/s	8 m/s	10 m/s
Max. acceleration:	85 m/s ²	85 m/s ²	100 m/s ²

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

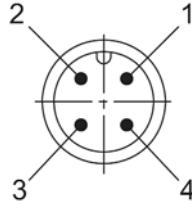
Output:	0 ... 10 V - galvanically separated
Supply voltage:	12 ... 30 V DC
Max. current consumption:	22.5 mA (without load)
Reverse polarity protection:	yes
Operating temperature:	-20 ... +60 °C

Art. No.:		
250 mm		16251
500 mm		16252
1250 mm		16253

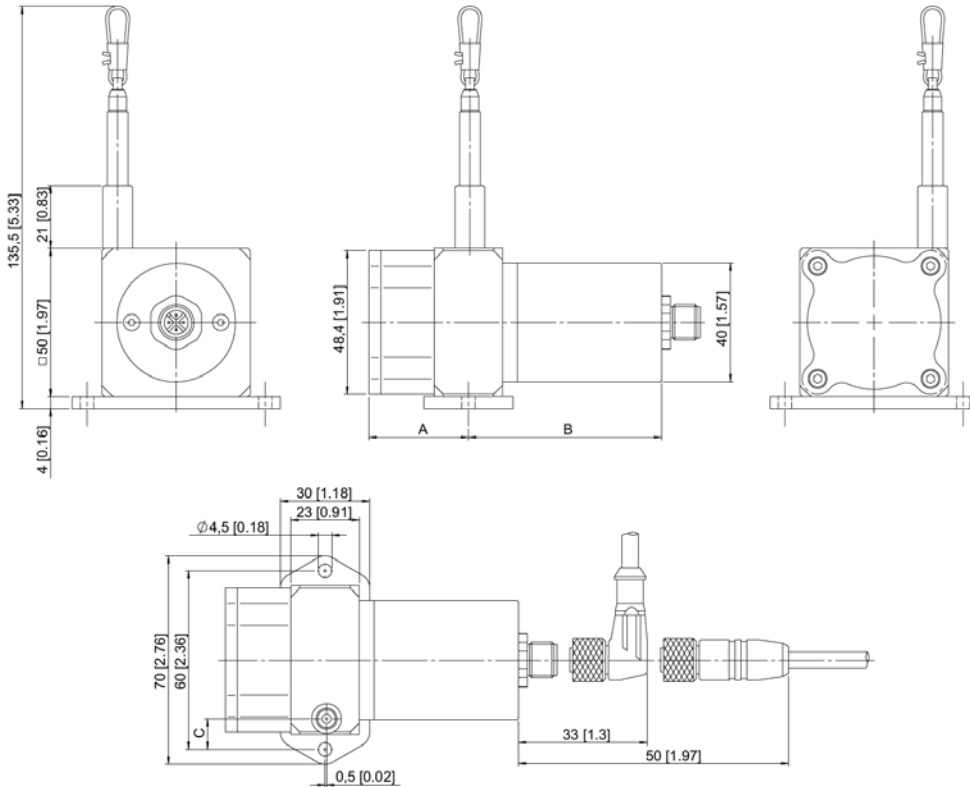
WIRE POTENTIOMETER

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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WirePotentiometer_d-055-e-rev002 08/09

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