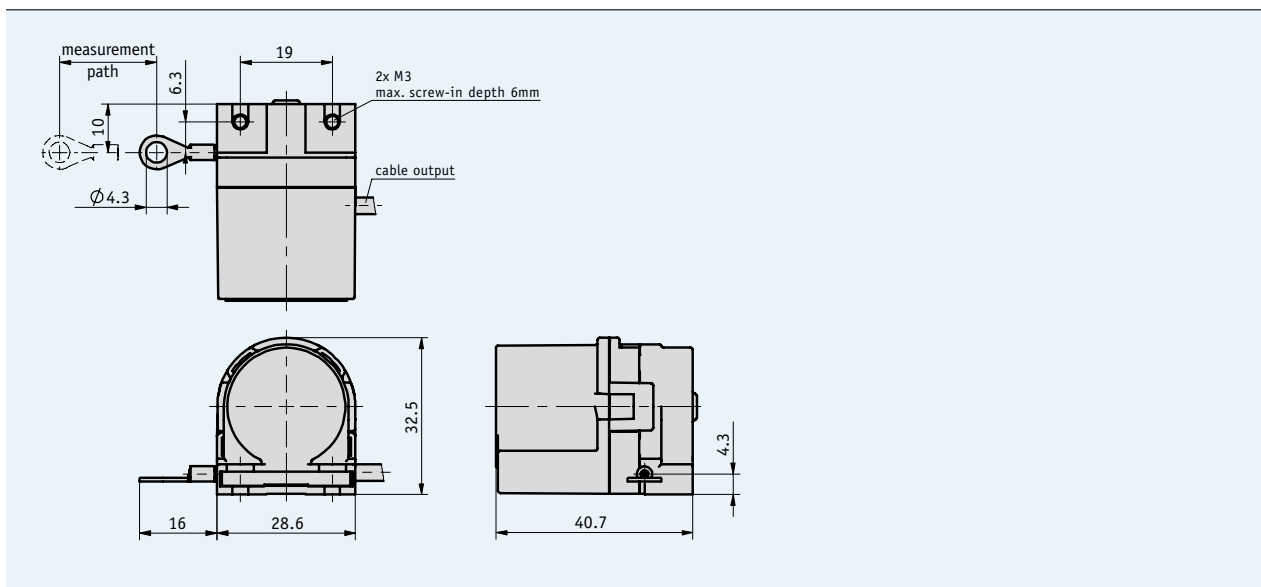


Profile

- Very small design
- Universally usable thanks to standardized interfaces
- Easy mounting
- Measurement lengths up to max. 600 mm
- Potentiometer, voltage or power output
- Housing made of reinforced plastic



3.1



Mechanical data

Feature	Technical data	Additional information
Travel speed	max. 800 mm/s	
Pull-out force required	min. 3 N	
Drum circumference	60 mm	
Repeat accuracy	±0.15 mm	
Absolute accuracy	±0.35 %	
Operating temperature	-10 ... +80 °C	
Condensation	inadmissible	
Encoder portion protection categ.	IP50	with factory-connected cable
Wire design	stainless steel wire, Ø 0.4 mm	plastic-coated
Encoder portion protection categ.	IP50 (potentiometer)	according to DIN VDE 0470
Weight	approx. 60 g	
Housing	reinforced plastic	

Electrical data

■ P10 encoder type, potentiometer



Feature	Technical data	Additional information
Value of resistance	10 kΩ	
Linearity of potentiometer	0.25 %	
Resistance tolerance	±5 %	
Power rating	1 W	
Pull-out length	0 mm : 0 Ω	
Cable length (connection)	max. 15 m	

Additional potentiometer values on request

■ MWI encoder type, current source (transducer*)



Feature	Technical data	Additional information
Output current	4 ... 20 mA	
Potentiometer	10 kΩ	
Operating voltage	15 ... 28 V DC	
Load resistance	<500 Ω	
Cable length (connection)	max. 30 m	

■ MWU encoder type, voltage source (transducer*)



Feature	Technical data	Additional information
Output current	0 ... 10 V DC	
Recomm. load resistance	2 ... 10 kΩ to GND	
Max. load	10 mA	
Operating voltage	15 ... 28 V DC with 3 mA without load	
Cable length (connection)	max. 20 m	

***Transducers** allow optimum adaptation of output current or output voltage to the measurement range. The transducer is preset at delivery to provide an output signal of 4 ... 20 mA (MWI) or 0 ... 10 V DC (MWU) between the starting point and the end point of the measurement range.

Pin assignment

■ Potentiometric outputs P10

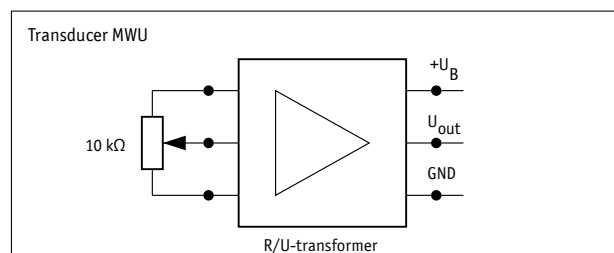
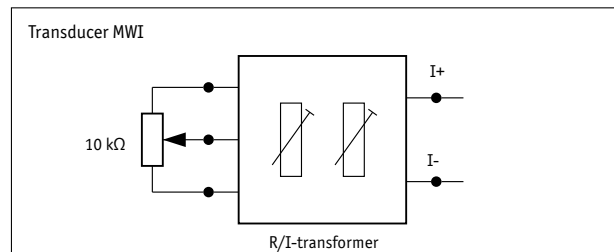
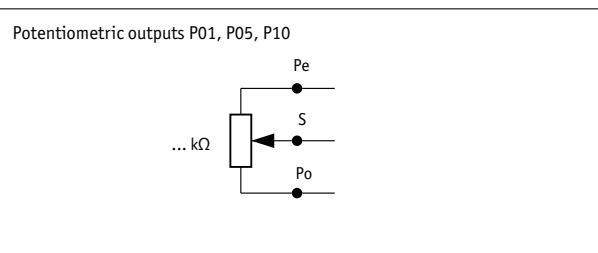
Signal	E1 (terminal)
Po	brown
Pe	white
S	green

■ MWI transducer

Signal	Cable color
I+	brown
I-	white

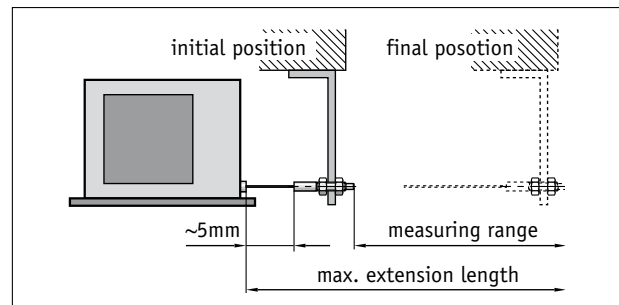
■ MWU transducer

Signal	Cable color
+24 V DC	brown
GND	white
U _{out}	green



Mounting note

When you attach the wire, it should be pulled out straight in line with the wire outlet. **Recommendation:** A 5 mm wire extension is recommended before the measurement starting point. This prevents the wire snapping back to the stop on rewinding.



Symbolic representation

Order

Order table

Feature	Order data	Specifications	Additional information
Measurement range (mm)	300	300 mm	transducer setting, only with MWI or MWU encoder types
	600	600 mm	
Encoder type	P10	potentiometer with 10 kΩ	
	MWI	transducer 4 ... 20 mA	
	MWU	transducer 0 ... 10 V	
Cable length (m)	OK	without cable	
	0.5	0.5 m	
	...	1 ... 15 m in steps of 1 m	

Order code

SG5 - - -

Scope of delivery: SG5, User information

Accessories:

Guide roller

Electronic displays MA50 or MA10/4

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Catalog 6 DisplayLine

Additional information:

General information and areas of application

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