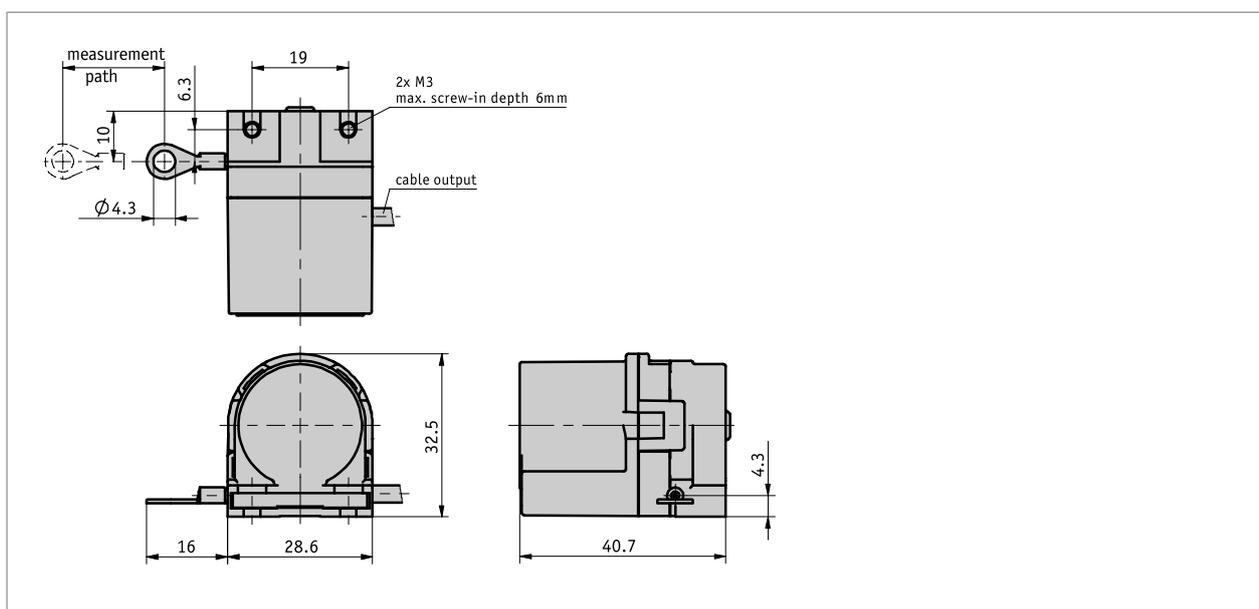


Profile

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

ANALOG



Mechanical data

Feature	Technical data	Additional information
Housing	reinforced plastic	
Wire design	Ø0.36 mm	rustproof stainless steel, plastic-coated
Extension force	≥3 N	
Absolute accuracy	±0.35 %	relating to measuring length (mm)
Cable length	≤15 m	P10 encoder type
	≤30 m	MWI encoder type
	≤20 m	MWU encoder type
Weight	~0.06 kg	

Electrical data

■ Encoder potentiometer

Feature	Technical data	Additional information
Power rating	2 W at 70 °C	
resistance	10 kΩ	
Resistance tolerance	±5 %	
Linearity tolerance	±0.25 %	

■ Transducer, power output

Feature	Technical data	Additional information
Operating voltage	24 V DC $\pm 20\%$ at load 500 Ω	
Output current	4 ... 20 mA	

■ Transducer, voltage output

Feature	Technical data	Additional information
Operating voltage	15 ... 28 V DC at 36 mA without load	
Output voltage	0 ... 10 V DC	$I_{Load} \leq 10$ mA
Load	≤ 10 mA	

* **Transducers** enable optimal adaptation of output current or output voltage to the measuring range. The measuring transformer is factory preset so that an output signal of 4 ... 20 mA (MWI) or 0 ... 10 V DC (MWU) is available between the start and end points of the measuring range.

System data

Feature	Technical data	Additional information
Repeat accuracy	± 0.15 mm	
Travel speed	≤ 800 mm/s	

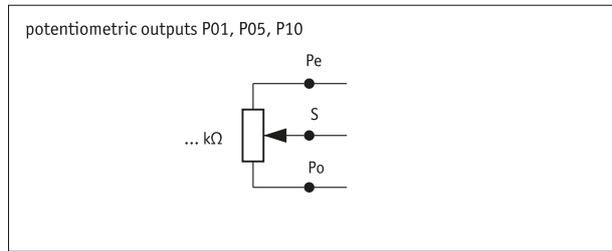
Ambient conditions

Feature	Technical data	Additional information
Ambient temperature	-10 ... 80 °C	
Relative humidity		condensation inadmissible
Protection category	IP50 (encoder part)	EN 60529, with cable connected in the factory

pin assignment

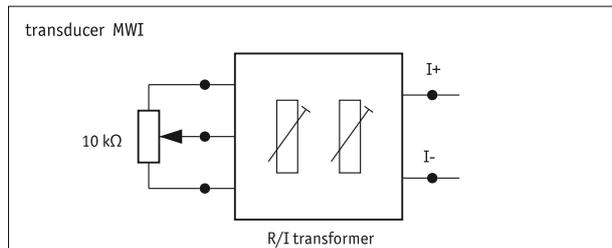
■ Potentiometric outputs P10

Signal	E1 (terminal)
Po	brown
Pe	white
S	green



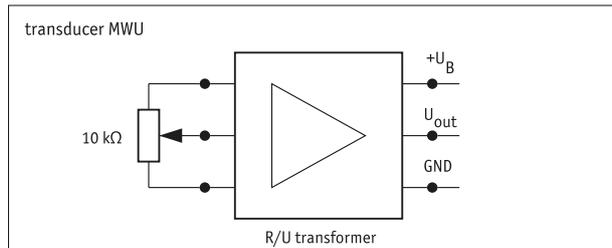
■ MWI transducer

Signal	Cable color
I+	brown
I-	white



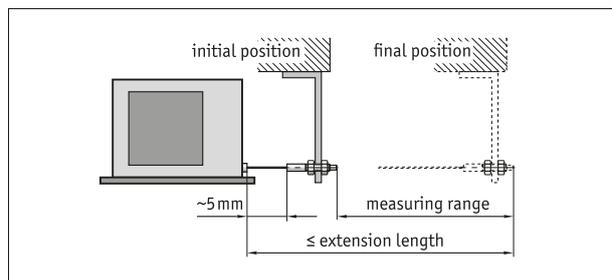
■ MWU transducer

Signal	Cable color
+24 V DC	brown
GND	white
Uout	green



Hint for mounting

When securing the wire it must be ensured that the wire is straight and vertical in relation to the wire outlet.
Recommendation: Only select the starting position after an unwound length of approx. 5 mm. This prevents the wire hitting the end stop when it is rewound.



Symbolic representation

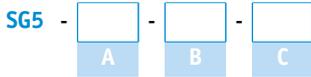
Order

■ Ordering table

Feature	Ordering data	Spezifikation	Additional information
Measuring range	A 300M 600	300 mm 600 mm	Transducer setting, only with MWI or MWU encoder types
encoder type	B P10 MWI MWU	potentiometer with 10 kΩ transducer 4 ... 20 mA transducer 0 ... 10 V others on request	

Feature	Ordering data	Spezifikation	Additional information
Cable length	C	without cable	
	OK	0.5 m	
	00.5	0.5 m	
	...	01.0 ... 15.0 m, in intervals of 1 m	

■ Order key



Scope of delivery:

SG5



Accessories you can find:

Guide roller UR
Measurement display MA50

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