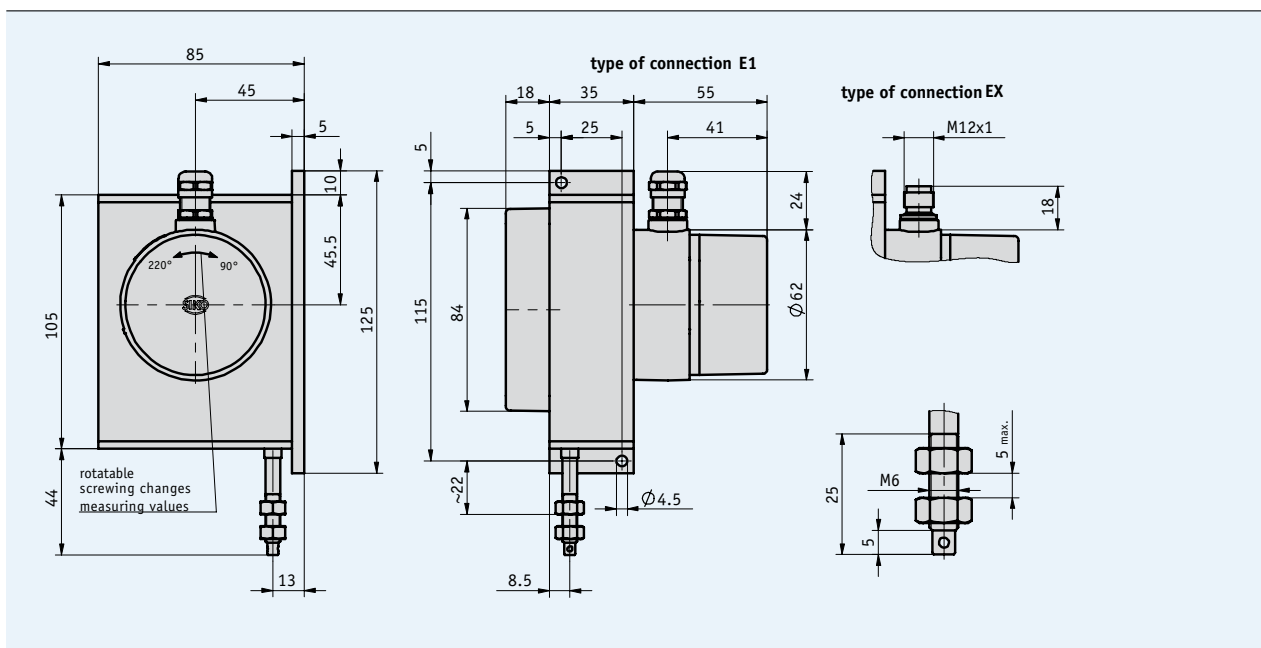


### Profile

- Robust design
- Measurement lengths up to max. 6000 mm
- Potentiometer, voltage or power output
- Housing made of aluminum and plastic
- Potentiometer/resistance range adapted to actual measurement length via an integrated gear
- Various wire types



3.1

### Mechanical data

Feature	Technical data	Additional information
Travel speed	see table	
Pull-out force required	min. 8 N on the wire	
Drum circumference	200 mm	
Wire design	steel wire $\varnothing$ 0.54 mm plastic-coated steel wire, $\varnothing$ 0.87 mm paraline $\varnothing$ 1.05 mm	
Repeat accuracy	depends on the direction of approach $\sim$ 0.5 mm	
Protection category	for potentiometer portion: IP65	
Operating temperature	-20 ... +80 °C -40 ... +80 °C	T1 T2 (max. pull-in speed 800 mm/s)
Color	nature anodized	others on request
Weight	approx. 730 g	
Housing	aluminum/plastic	

### ■ Max. travel speed

Measurement range (mm)	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	... 6000
Max. travel speed (mm/s)	200	300	300	400	490	500	600	700	800	800	900	1000	... 1000

### Electrical data

#### Potentiometric encoder type



Feature	Technical data	Additional information
Value of resistance	1, 2, 5, 10 kΩ	
Pull-out length	0 mm : 0 Ω	

#### Potentiometer option

Feature	(Type 02)	(Type 03)
Linearity	±0.25 %	±0.25 %
Resistance tolerance	±5 %	±5 %
Power rating	1 W	2 W

#### 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	

#### MWU encoder type, voltage source 0 ... 10 V DC (transducer\*)



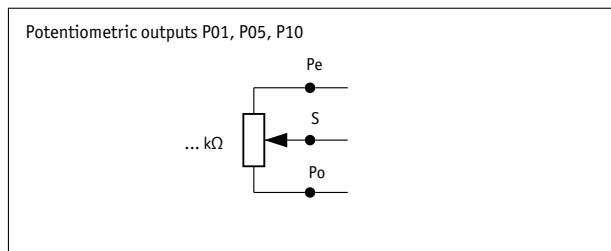
Feature	Technical data	Additional information
Output current	0 ... 10 V DC	
Recomm. load resistance	2 ... 10 kΩ to GND	
Max. load	15 mA	
Operating voltage	15 ... 28 V DC with 3 mA without load	

\*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

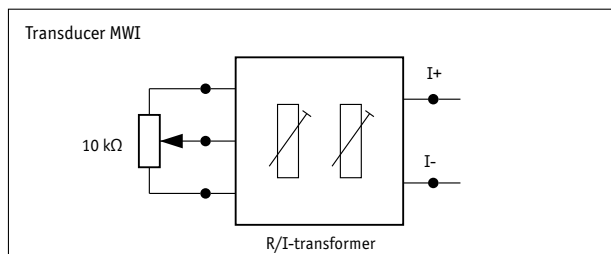
#### Potentiometric outputs P10

Signal	E1 (terminal)	E12 (plug-in pin)
Po	brown	1
Pe	white	2
S	green	3
N.C.		4



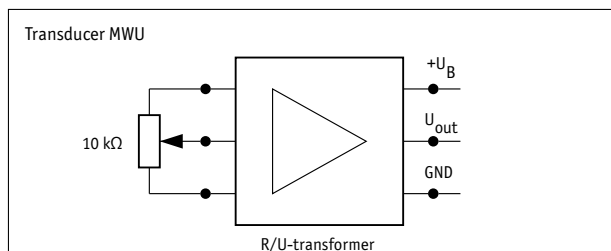
#### MWI transducer

Signal	E1 (terminal)	E12 (plug-in pin)
I+	1	1
I-	2	2
N.C.	3	3
N.C.		4



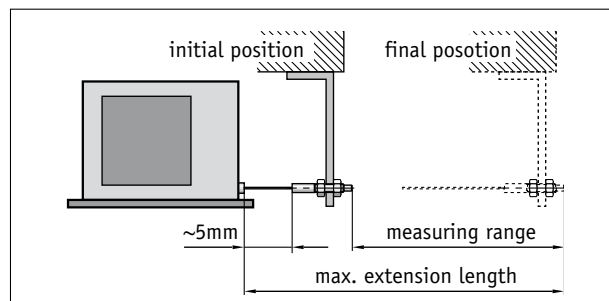
#### MWU transducer

Signal	E1 (terminal)	E12 (plug-in pin)
+24 V DC	1	1
GND	2	2
U <sub>out</sub>	3	3
N.C.		4



### 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)	... <b>A</b>	750 ... 6000	in steps of 250 mm
Wire design	<b>S</b>	stainless steel wire	measurement range max. 6000 mm
	<b>SK</b>	steel wire, plastic-coated	measurement range max. 4000 mm
	<b>P</b>	paraline, non-conducting, signal color	measurement range max. 2800 mm
Type of connection	<b>E1</b>	screwed cable gland PG7	cable Ø 3-6.5 mm
	<b>EX</b>	for M12 connector	
Potentiometer type	<b>02</b>	10 turns/wire	(P01, P05, P10)
	<b>03</b>	10 turns/hybrid	(P01, P05, P10)
Analog output	<b>MWI</b>	transducer 4 ... 20 mA	
	<b>MWU</b>	transducer 0 ... 10 V	
	<b>P01</b>	potentiometer 1 kΩ	
	<b>P05</b>	potentiometer 5 kΩ	
	<b>P10</b>	potentiometer 10 kΩ	
Operating temperature	<b>T1</b>	-20 ... +80 °C	
	<b>T2</b>	-40 ... +80 °C	max. pull-in speed 800 mm/s

#### Order code

SGP/1 -  -  -  -  -  -

**Scope of delivery:** SGP/1, User information

#### Accessories:

Guide roller  
Electronic displays MA50 or MA10/4

Page 38  
Catalog 6 DisplayLine

#### Additional information:

General information and areas of application

Page 4 cont.