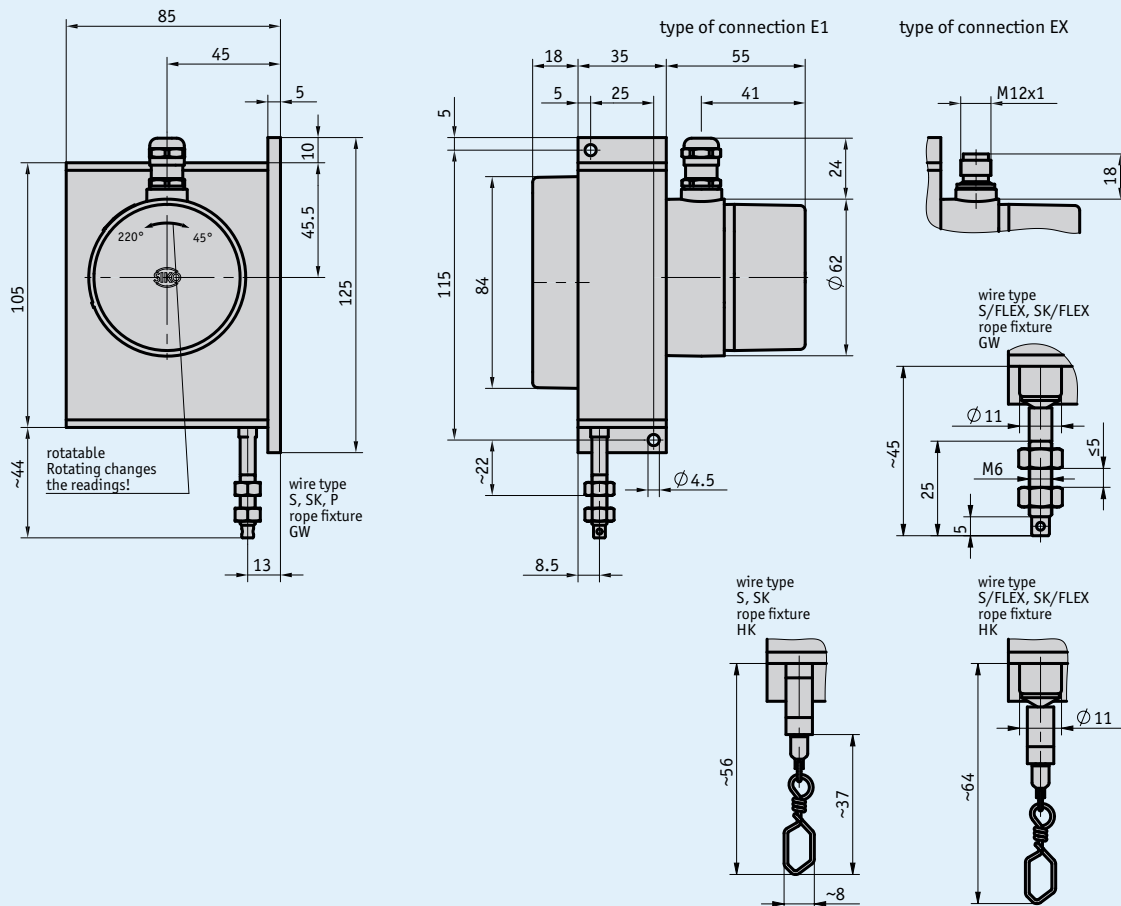


Profile

- 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



Mechanical data

Feature	Technical data	Additional information
Housing	aluminum/plastic	
Wire design	steel wire $\varnothing 0.54$ mm steel wire (stainless steel) $\varnothing 0.87$ mm para-line synthetic rope $\varnothing 1.05$ mm	plastic coated
Extension force	≥ 8 N	
Measured distance/ rope drum revolution	200 mm	
Acceleration	≤ 23.5 m/s ²	
Weight	~ 0.7 kg	

■ max. travel speed

Measuring range [mm]	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250	3500	6000
Travel speed [mm/s]	≤ 200	≤ 300	≤ 300	≤ 400	≤ 490	≤ 500	≤ 600	≤ 700	≤ 800	≤ 800	≤ 900	≤ 1000	≤ 1000

Electrical data

■ Encoder potentiometer

Feature	Technical data	Additional information
Power rating	2 W at 70 °C	
Resistance	1 k Ω 2 k Ω 5 k Ω 10 k Ω	P01 P02 P05 P10
Resistance tolerance	± 5 %	
Linearity tolerance	± 0.25 %	

■ Transducer, power output

Feature	Technical data	Additional information
Operating voltage	10 ... 30 V DC	between I+ and I-, load ≤ 500 Ω
Output current	4 ... 20 mA	

■ Transducer, voltage output

Feature	Technical data	Additional information
Operating voltage	15 ... 28 V DC	at 3 mA without load
Output voltage	0 ... 10 V DC	
Resistance	2 ... 10 k Ω	against GND
Load	≤ 15 mA	

* Measurement transducers permit optimum adjustment of the output current and output voltage to the measuring range. The measurement transducer is pre-set at the works so that an output signal of 4 ... 20 mA (MWI) or 0 ... 10 V DC (MWU) is available.

System data

Feature	Technical data	Additional information
Repeat accuracy	~ 0.5 mm	per direction of approach
Travel speed	see table	

Ambient conditions

Feature	Technical data	Additional information
Ambient temperature	-20 ... 80 °C -40 ... 80 °C	T1 T2 (draw-in speed ≤ 800 mm/s)
Protection category	IP65 (potentiometer part)	EN 600529

Pin assignment

■ Potentiometric outputs P10

Signal	E1 (terminal)	E12 (connector pin)
Po	brown	1
Pe	white	2
S	green	3
nc		4

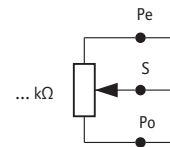
■ MWI transducer

Signal	E1 (terminal)	E12 (connector pin)
I+	1	1
I-	2	2
nc	3	3
nc		4

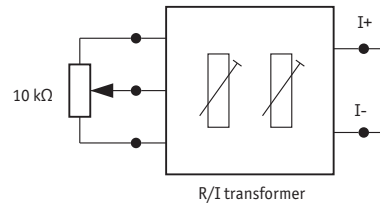
■ MWU transducer

Signal	E1 (terminal)	E12 (connector pin)
+24 V DC	1	1
GND	2	2
U _{out}	3	3
nc		4

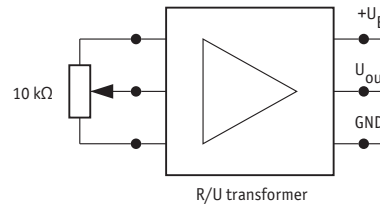
potentiometric outputs P01, P05, P10



transducer MWI

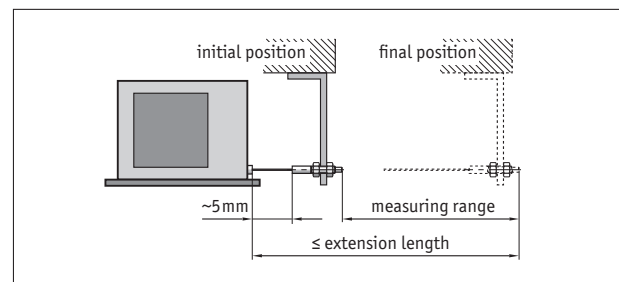


transducer MWU



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 depiction

Order

Ordering table

Feature	Ordering data	Specification	Additional information
Measuring range	... A	750 ... 6000 mm, in steps of 250 mm	
Rope fixture	GW B HK	wire suspension with thread wire suspension with hook	
Wire design	S C SK P S/FLEX SK/FLEX	stainless steel rope stainless steel rope, plastic-coated para-line, non-conducting, signal color stainless steel rope, flexible rope outlet stainless steel rope, plastic-coated, flexible rope outlet	measuring range ≤ 6000 mm measuring range ≤ 4000 mm measuring range ≤ 2800 mm measuring range ≤ 6000 mm measuring range ≤ 4000 mm
Type of connection	E1 D EX	cable gland PG7 for M12 connector	cable ø 3-6.5 mm
Potentiometer type	O2 E O3	10 helices/wire 10 helices/hybride	(P01, P05, P10) (P01, P05, P10)
Analog output	MWI F MWU P01 P05 P10	4 ... 20 mA transducer 0 ... 10 V transducer potentiometer 1 kΩ potentiometer 5 kΩ potentiometer 10 kΩ	
Operating temperature	T1 G T2	-20 ... +80 °C -40 ... +80 °C	≤ feed speed 800 mm/s

Order key

SGP/1 - - - - - - -

A B C D E F G

Scope of delivery: SGP/1, Mounting instructions

Accessories:

Electronic display MA50

Guide roller UR

Wire extension piece SV

Mating Connector Overview

Mating connector, EX, 4-pole, socket

www.siko-global.com

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Order key 83419