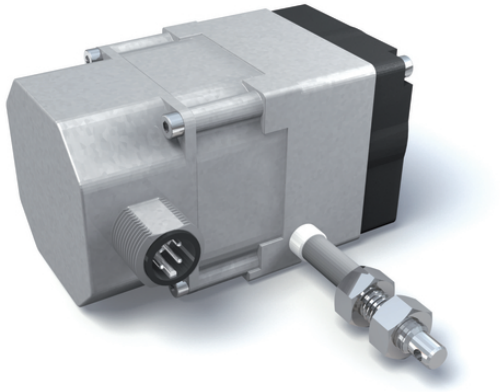
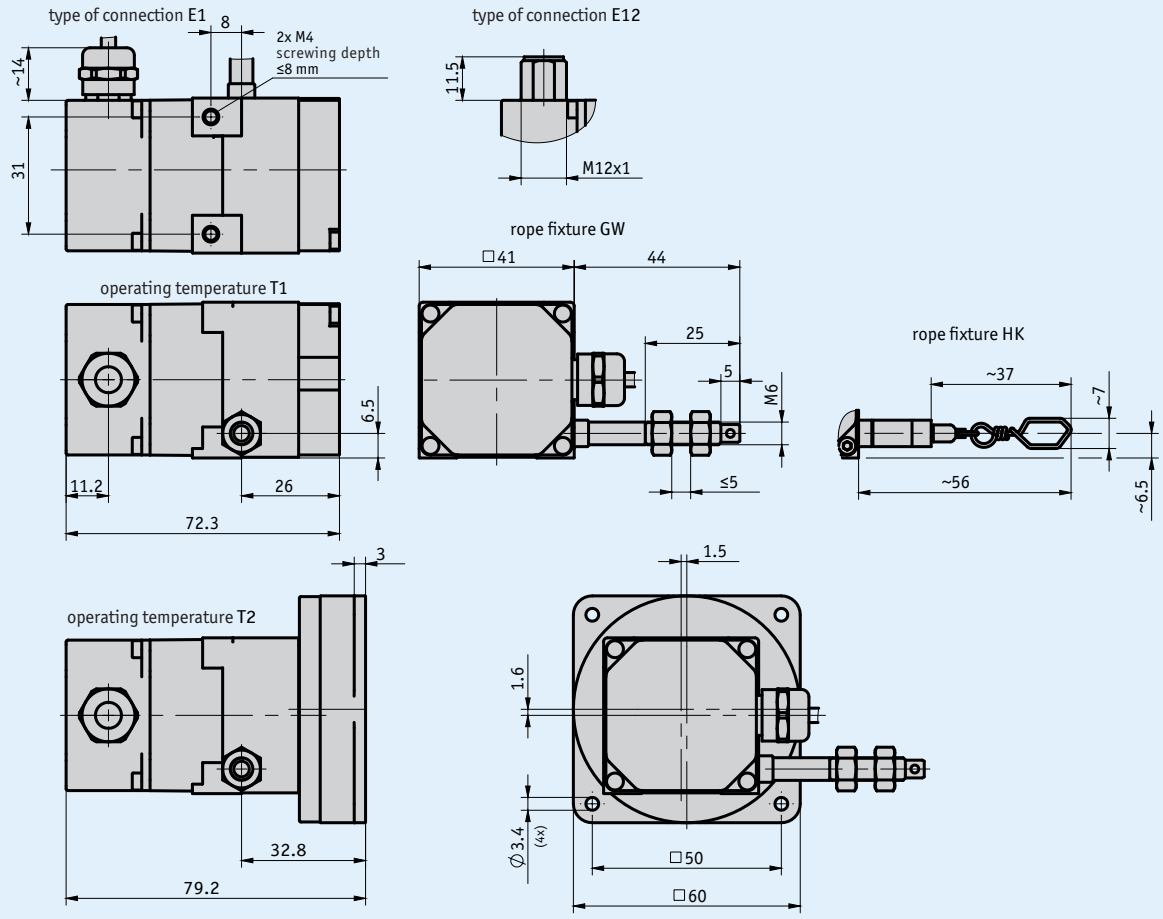
Profile

- Compact design
- Universally applicable thanks to standardized interfaces
- Easy mounting
- Measurement lengths up to max. 2000 mm
- Potentiometer, voltage or power output
- Robust zinc die-cast housing





Mechanical data

Feature	Technical data	Additional information
Housing	zinc die-cast	
Wire design	steel wire (stainless steel) ø0.45 mm	plastic coated
Extension force	≥2 N	T1 operating temperature
	≥11 N	T2 working temperature
Measured distance/ rope drum revolution	100 mm	
Absolute accuracy	±0.35 %	relating to measuring length (mm)
Cable length	≤30 m	4/20mA, MWIHP, MWIHP/R encoder type
	≤20 m	P10; 0/10V; 0,5/4,5V encoder type
Weight	~0.32 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	10 ... 30 V DC	between I+ and I-, at ≤500 Ω load
Output current	4 ... 20 mA	(4/20mA; MWIHP)

Transducer, voltage output

Feature	Technical data	Additional information
Operating voltage	15 ... 28 V DC	at 3 mA without load (0/10V)
	8 ... 28 V DC	at 3 mA without load (0,5/4,5V)
Output voltage	0 ... 10 V DC	I_{Load} ≤10 mA
	0.5 ... 4.5 V DC	I_{Last} ≤10 mA (0,5/4,5V)
Resistance	2 ... 10 kΩ	against GND
Load	≤15 mA	

System data

Feature	Technical data	Additional information
Repeat accuracy	±0.15 mm	
Travel speed	≤1 m/s	

Ambient conditions

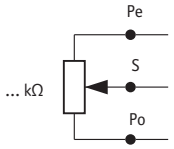
Feature	Technical data	Additional information
Ambient temperature	-10 ... 80 °C	T1
	-40 ... 80 °C	T2
Protection category	IP65 (encoder part)	EN 600529

Pin assignment

Potentiometric outputs P10

Signal	E1	E12
Po	brown	1
Pe	white	2
S	green	3
nc		4

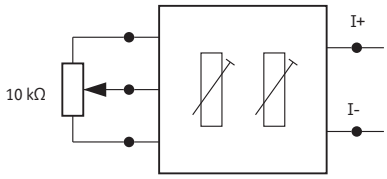
potentiometric outputs P01, P05, P10



MWI transducer

Signal	E1	E12
I+	brown	1
I-	white	2
nc		3
nc		4

transducer MWI

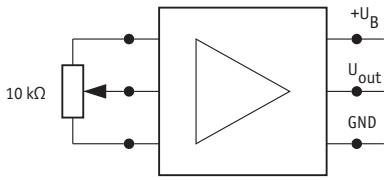


R/I transformer

MWU transducer

Signal	E1	E12
+24 V DC	brown	1
GND	white	2
U_{out}	green	3
nc		4

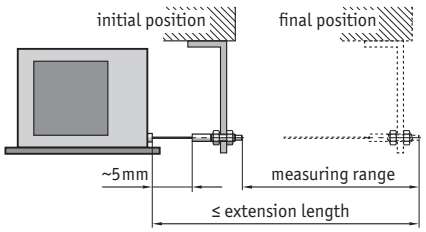
transducer MWU



R/U transformer

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	1250, 1500, 1750, 2000 in mm	
Rope fixture	GW	B	wire suspension with thread	
	HK		wire suspension with hook	
Encoder type	P10	C	potentiometer with 10 kΩ	
	0.5/4.5V		measuring transducer 0.5 ... 4.5 V	
	0/10V		measuring transducer 0 ... 10 V	
	4/20mA		measuring transducer 4 ... 20 mA	
			others on request	
Type of connection	E1	D	open cable ends	
	E12		connector	
Cable length	...	E	1 ... 20.0 m, in steps of 1 m	with P10 or MWU encoder types
	...		1 ... 30.0 m, in steps of 1 m	with MWI encoder type
Operating temperature	T1	F	-10 ... +80 °C	
	T2		-40 ... +80 °C	

Order key

SG20 - [ ] - [ ] - [ ] - [ ] - [ ] - [ ]
A B C D E F

Scope of delivery: *SG20, Mounting instructions*

Accessories:

Electronic display MA50	*www.siko-global.com*
Guide roller UR	*www.siko-global.com*
Wire extension piece SV	*www.siko-global.com*
Mating Connector Overview	*www.siko-global.com*
Mating connector, E12, 4-pole, socket	*Order key 83419*