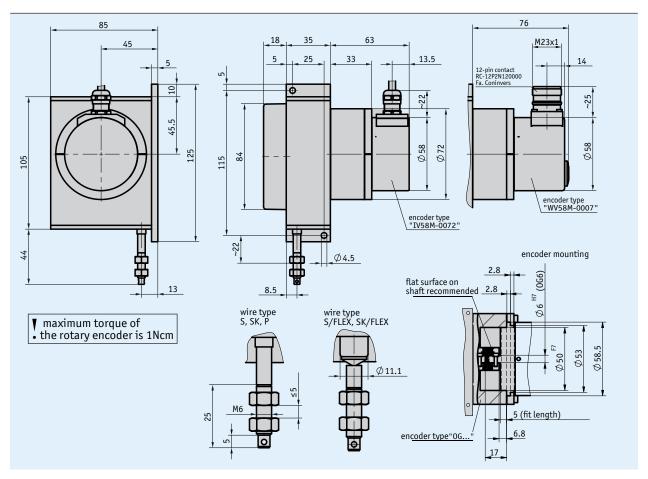
robust design with 12 m measurement length

Profile

- Robust design
- Easy mounting
- Measurement lengths up to max. 12000 mm
- Incremental or absolute encoder
- Housing made of aluminum and plastic
- High flexibility thanks to free choice of rotary encoders with 58 mm standard flange
- Various wire types





Mechanical data

Feature	Technical data	Additional information	
Housing	aluminum/plastic		
Wire design	ø0.54 mm	steel wire	
	ø0.87 mm	steel wire, plastic coated	
	ø1.05 mm	para-line plastic rope	
Extension force	≥8 N	on the wire	
Measured distance/ rope drum revolution	200 mm		
Weight	~0.7 kg		



System data

Feature	Technical data	Additional information
Repeat accuracy	±0.15 mm	depending on the direction of approach (1st layer)
Measuring range	≤12000 mm	
Travel speed	≤3000 mm/s	

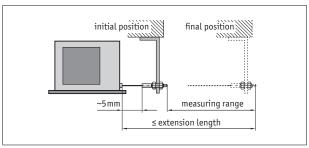
Ambient conditions

Feature	Technical data	Additional information
Ambient temperature	-20 80 °C	
Protection category		depending on the rotary encoder installed

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.

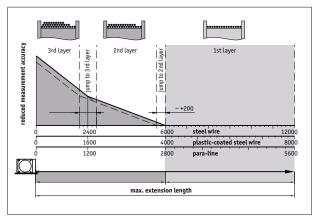


symbolic depiction

Extension length/measuring range

SIKO wire-actuated encoders achieve the maximum measuring accuracy when the entire wire length (measuring range) is only wound onto the drum in one layer. On the SG120 the wire diameter is selected so that when the first drum layer is used, a maximum measuring range of 6000 mm is possible. The larger diameter of the plastic sheathed steel wire and the Paraleine require more space. The result is a correspondingly shorter measuring range. If a lower measuring accuracy is acceptable, two to three layer winding is also possible, and the possible measuring lengths change accordingly.

Extension lengths SG120	1st layer	2nd and 3rd layers
Steel wire	6000 mm	12000 mm
Steel wire, plastic-coated	4000 mm	8000 mm
Paraline	2800 mm	5600 mm



dimensions refer to millimeters

Order

Ordering information

One or more system components are required:

Absolute encoder AV58M www.siko-global.com
Incremental encoder IV58M www.siko-global.com
Absolute encoder WV58MR www.siko-global.com
Absolute encoder WV36M/SSI www.siko-global.com
Absolute encoder WV36M/CAN www.siko-global.com

Ordering table

Feature	Ordering data	Specification	Additional information		
Measuring range	A	2900 12000 mm, in steps of 100 mm			
Wire design	S	stainless steel rope	measuring range ≤ 6100 12000 mm		
	SK	stainless steel rope, plastic-coated	measuring range ≤ 4100 8000 mm		
	P	para-line, non-conducting, signal color	measuring range ≤ 2900 5600 mm		
	S/FLEX	stainless steel rope, flexible rope outlet			
	SK/FLEX	stainless steel rope, plastic-coated, flexible rope outlet			
Color	N	natural, anodized			
	C	others on request			

Order key

Scope of delivery: SG120

Accessories:
Guide roller UR
Wire extension piece SV

www.siko-global.com
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