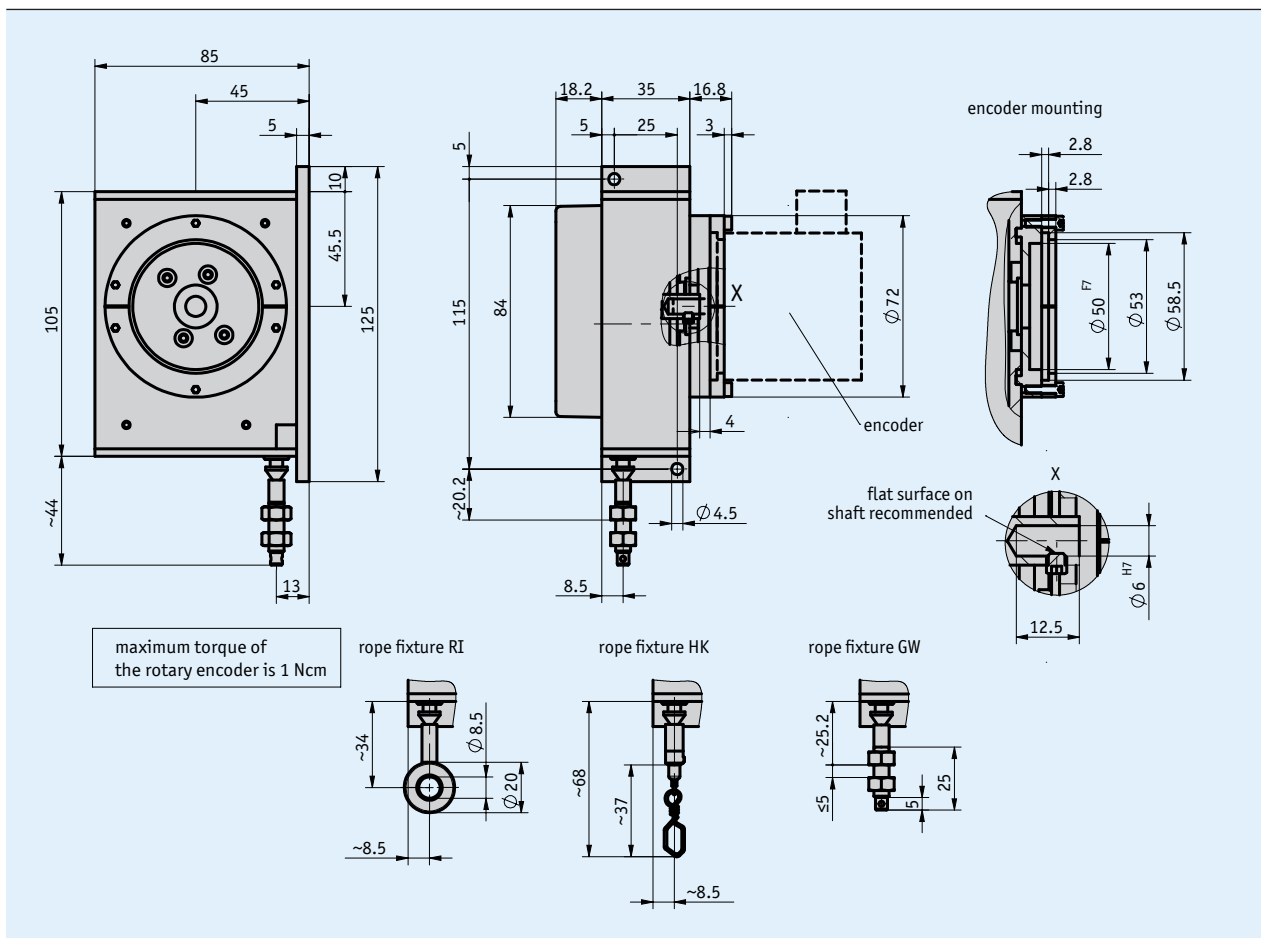
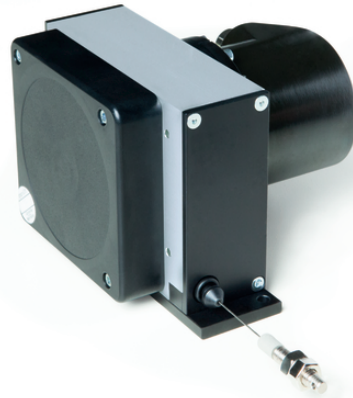


## Profile

- Robust design
- Easy mounting
- Measurement lengths up to max. 6000 mm
- Incremental or absolute encoder
- Also available as a safety version in combination with WV58MR rotary encoder
- High flexibility thanks to free choice of rotary encoders with 58 mm standard flange
- Various wire types
- With PURE.MOBILE technology



## Mechanical data

Feature	Technical data	Additional information
Housing	aluminum/plastic	
Wire design	<ul style="list-style-type: none"> <li>Ø0.6 mm</li> <li>Ø0.6 mm</li> <li>Ø0.6 mm</li> </ul>	<ul style="list-style-type: none"> <li>steel cable</li> <li>steel cable, plastic sheathed</li> <li>para-line</li> </ul>
Extension force	≥8 N	on the rope
Measured distance/ rope drum revolution	200 mm	
Acceleration	≤23.5 m/s <sup>2</sup>	

## Electric data

Rotary encoders suitable for the SG121 are featured on our website [www.siko-global.com](http://www.siko-global.com). Depending on the output signals, the following are suitable for:

- Analog outputs such as current or voltage: AV58M
- Incremental outputs: IV5800
- Absolute outputs: WV58MR, WV36M/SSI, WV36M/CAN

Among others, SIKO encoders have the following interfaces: Incremental, SSI, CANopen, CANopen Safety, SAE J1939, Field bus, and Ethernet

The technical specifications for these devices are given in the respective data sheet. Numerous encoder models from various manufacturers can also be used.

## System data

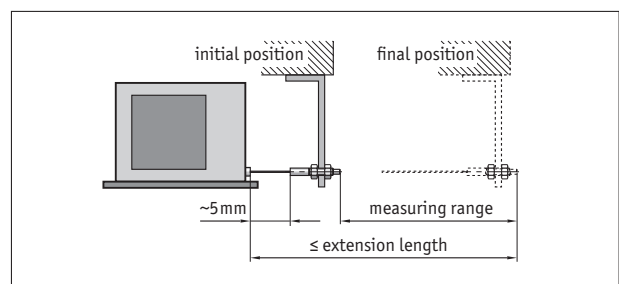
Feature	Technical data	Additional information
Repeat accuracy	±0.15 mm	mechanical, depending on the direction of travel
Measuring range	≤6000 mm	
Travel speed	≤3000 mm/s	at working temperature T1

## Ambient conditions

Feature	Technical data	Additional information
Ambient temperature	-20 ... +80 °C -40 ... +80 °C	T1 T2 (feed speed ≤800 mm/s)
Protection category		depending on the mounted rotary encoder
Shock resistance	500 m/s <sup>2</sup> , 11 ms	EN 60068-2-27
Vibration resistance	100 m/s <sup>2</sup> , 5 ... 150 Hz	EN 60068-2-6

## 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 information

One or more system components are required:

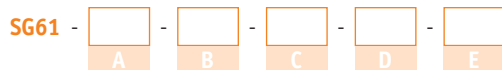
Incremental encoder IV5800  
 Absolute encoder WV58MR  
 Absolute encoder WV36M/SSI  
 Absolute encoder WV36M/CAN

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### Ordering table

Feature	Ordering data	Specification	Additional information
Measuring range	... <b>A</b>	3000, 4000, 5000, 6000 in mm	
Rope fixture	<b>GW</b>	wire suspension with thread	
	<b>HK</b>	wire suspension with hook	
	<b>RI</b>	wire suspension with ring	
Wire design	<b>S</b>	stainless steel wire	
	<b>SK</b>	steel wire, plastic-sheathed	
	<b>P</b>	Para-Line	
Encoder type	<b>OG6</b>	without encoder	
	<b>S6</b>	great number of encoders possible	
Operating temperature	<b>T1</b>	-20° C ... +80° C	
	<b>T2</b>	-40° C ... +80° C	

### Order key



**Scope of delivery:** SG61, Quick Start Guide

#### Accessories:

Guide roller UR  
 Wire extension piece SV

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