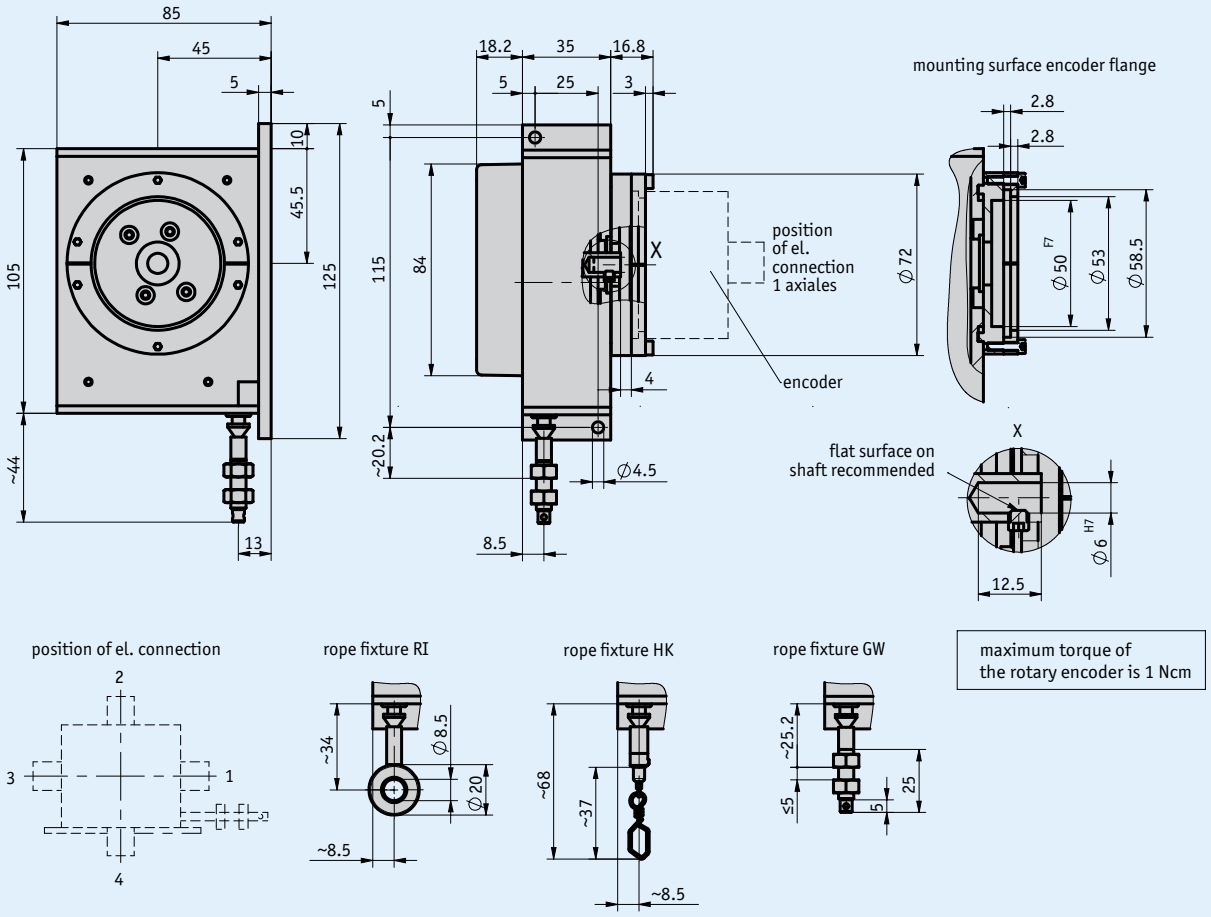
Profile

- Robust design
- Easy mounting
- Measurement lengths up to max. 6000 mm
- Flexible wire outlet thanks to Wire-Flex technology
- 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	ø0.6 mm	steel cable
	ø0.6 mm	steel cable, plastic sheathed
	ø0.6 mm	para-line
Extension force	≥8 N	on the rope
Measured distance/ rope drum revolution	200 mm	
Absolute accuracy	0.1 %	from the upper range value, mechanical
Acceleration	≤23.5 m/s^2	

Electric data

Rotary encoders suitable for the SG61 are featured on our website 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, WV5800M, 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

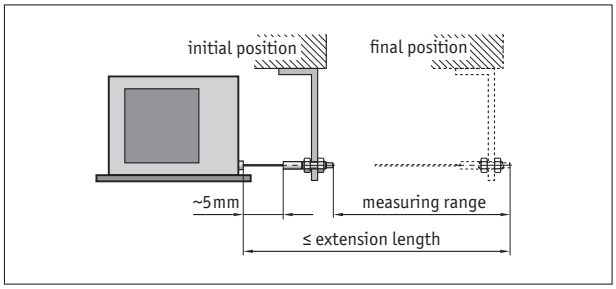
Feature	Technical data	Additional information
Repeat accuracy	±0.15 mm	unidirectional, mechanical
Measuring range	≤6000 mm	
Travel speed	≤3000 mm/s	at working temperature T1

Ambient conditions

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

Absolute encoder WV58MR	www.siko-global.com
Absolute encoder WV5800M	www.siko-global.com
Absolute encoder AV58M	www.siko-global.com
Incremental encoder IV5800	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	3000, 4000, 5000, 6000 in mm	
Rope fixture	GW	B	wire suspension with thread	
	HK		wire suspension with hook	
	RI		wire suspension with ring	
Wire design	S	C	stainless steel wire	
	SK		steel wire, plastic-sheathed	
	P		Para-Line	Measurement range ≤5000 mm
Encoder type	OG6	D	without encoder	
	S6		great number of encoders possible	
Position of electrical connection	1	E	direction or wire outlet or axially	depending on installed encoder
	2		upward	
	3		opposite the wire outlet	
	4		downward	
	0		without encoder	
Operating temperature	T1	F	-20° C ... +80° C	
	T2		-40° C ... +80° C	

Order key

SG61 - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ]
A B C D E F

Scope of delivery: *SG61, Quick Start Guide*

Accessories:

Guide roller UR	*www.siko-global.com*
Wire extension piece SV	*www.siko-global.com*

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