Profile

- Wire-actuated encoder for rotary encoder with max. Ø40 mm flange
- Measurement lengths up to 2000 mm
- Sturdy zinc die-cast housing, robust design, stable measuring rope (stainless steel)
- Very compact design

encoder mounting   (enlarged illustration)

2x M4 screwing depth ≤8 mm

Ø 6 H7

0.3 ... 0.8
(flange coupling)

operating temperature T1

□41 ~ 44

□35

≤5

M6

6.5

5

25

rope fixture HK

~37

~7

~56

~6.5

operating temperature T2

□60

1.5

□50

1.6

14.2

Ø 3.4 (4x)

M2.5 screwing depth ≤8 mm
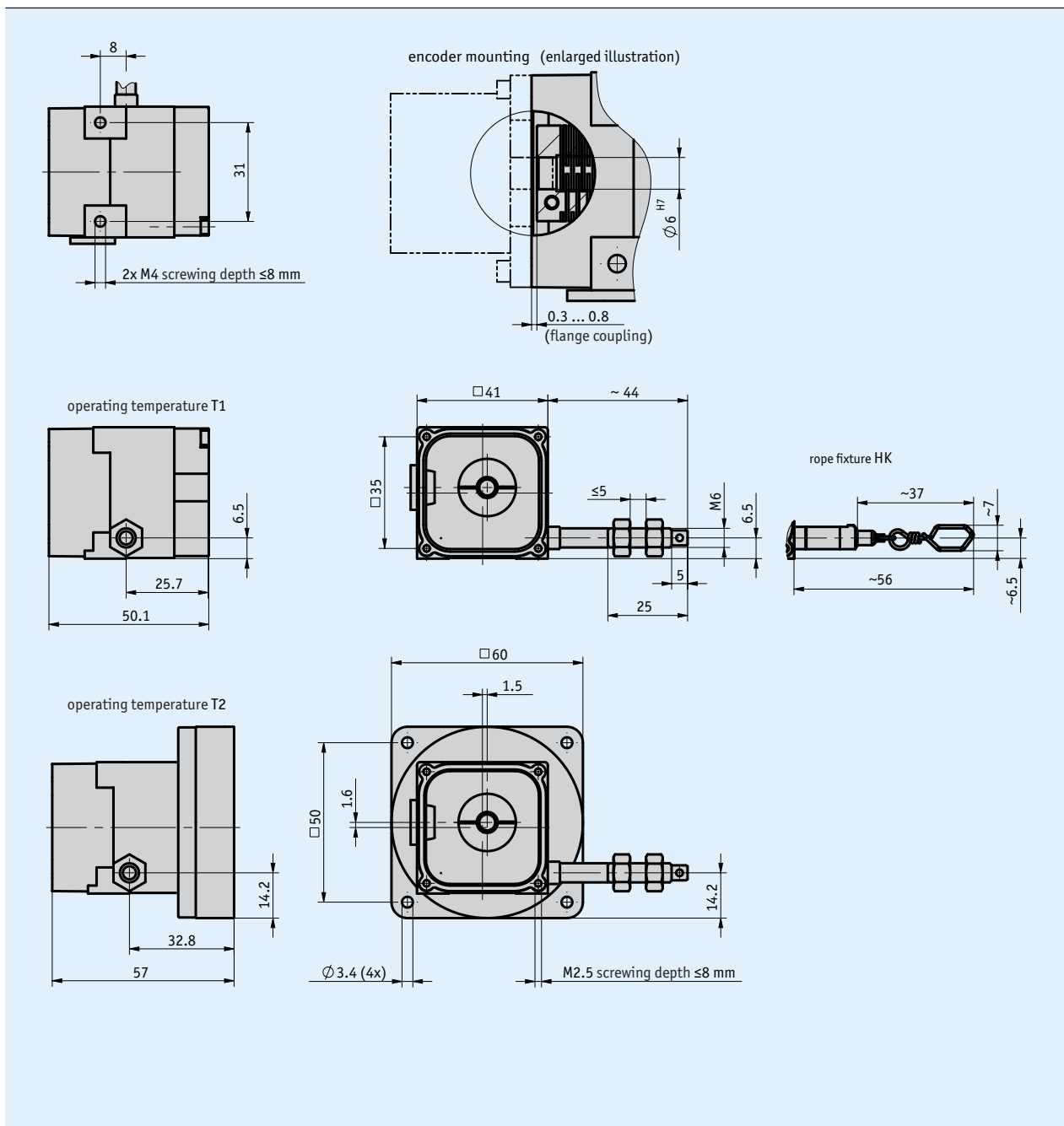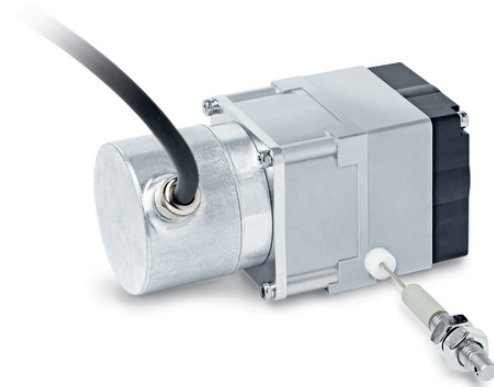
Mechanical data

Feature	Technical data	Additional information
Housing	zinc die-cast	
Wire design	ø0.45 mm	steel wire (stainless), plastic coated
Extension force	≥2 N	T1 operating temperature
	≥11 N	T2 operating temperature
Measured distance/ rope drum revolution	100 mm	
Weight	~0.2 kg	

Electric data

Rotary encoders suitable for the SG21 are featured in RotoLine catalogue 2. Depending on the output signals the following are suitable for...

- Incremental outputs: IV2800
- Absolute outputs: WV36M/SSI, WV36M/CAN

The technical specifications for these devices are given in the respective data sheet. A number of transmitter versions of various manufacturers can also be used.

System data

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

Ambient conditions

Feature	Technical data	Additional information
Ambient temperature	-10 ... 80 °C	T1
	-40 ... 80 °C	T2

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.
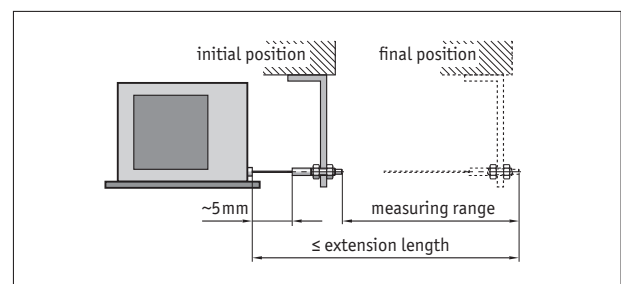
symbolic depiction

Order

■ Ordering information

One or more system components are required:

Mounting Flange ZB4002   www.siko-global.com

■ Ordering table

Feature	Ordering data		Specification	Additional information
Rope fixture	GW	A	wire suspension with thread	
	HK		wire suspension with hook	
Encoder type	OG6	B	without encoder	
	S6		a wide range of encoders can be used	see accessories
Operating temperature	T1	C	-10 … +80 °C	
	T2		-40 … +80 °C	

■ Order key

SG21 - [ ] - [ ] - [ ]
      A   B   C

Scope of delivery: SG21, Mounting instructions

Accessories:
Guide roller UR   *www.siko-global.com*
Wire extension piece SV   *www.siko-global.com*
Incremental encoder IV2800   *www.siko-global.com*
Absolute encoder WV36M/SSI   *www.siko-global.com*
Absolute encoder WV36M/CAN   *www.siko-global.com*