Geared potentiometer GP02

Geared potentiometer for absolute position sensing with analog output. Easy handling and compact design.

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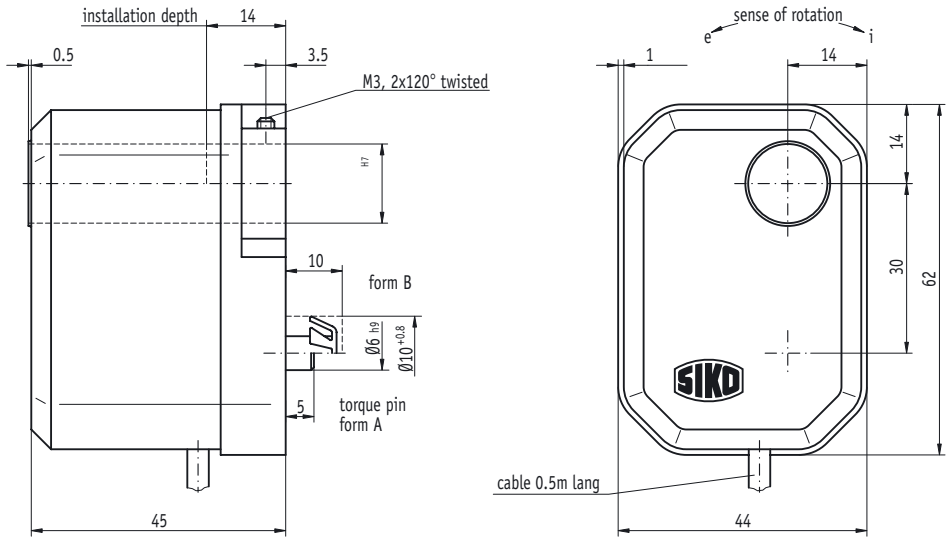
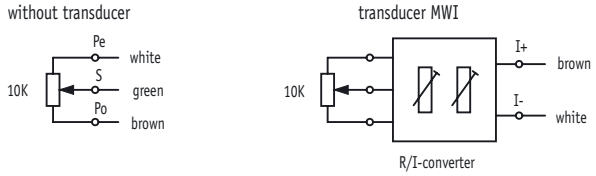
Features:

- through hollow shaft max. 14 mm
- high flexibility thanks to different gear ratios
- compact low-cost design
- optional interface: current 4... 20 mA





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Feature	Order text		Technical data	Additional information
Gear ratio			0.2... 128	
Rotational speed			max. 500 min $^{-1}$	depending on gear ratio
Supply voltage			24 V DC ± 20 %	transducer MWI (at ≤ 500 Ohm)
Working temperature			- 0 °C... + 80 °C	
Condensation			not permitted	
Service life - shaft movements			1 x 10^6 (2 x 10^6)	
Test mark/interference prot. class			CE	3 acc. to IEC 801
Type of protection			IP52	acc. to DIN VDE 0470
Housing			plastic	
Shaft			blued steel	
Potentiometer electrical values				
Resistance tolerance			± 5 %	
Linearity tolerance			± 0.25 %	
Load rating			1 W at 70 °C (potentiometer type 01,02)	2 W at 70 °C (potentiometer type 03)
Range of rotation			340° ± 5°	1 filament (mechanically straight through)
			3600° + 10°	10 filaments
Standard terminal resistor			0.5 % or 1 Ohm	(the higher value applies)
Ordering data				
Gear ratio	**...**	A	max. 128	
			others on request	
Drive shaft	**H/14**	B	hollow shaft, ø14 mm	**standard**
Torque support (form)	A	C	cylindrical pin	
	B		for tolerance compensation	
Potentiometer type	01	D	1 filament	
	02		10 filament/ wire	
	03		10 filament	
Resistance kOhm	1	E	1 kOhm	
	2		2 kOhm	
	5		5 kOhm	
	10		10 kOhm	
Transducer	without	F	without transducer	
	with		with transducer, 4 ... 20 mA	
Sense of rotation	i	G	see drawing	only with MWI
	e		see drawing	only with MWI
Cable length (in m)	**1.0**	H	0.2 - 15.0 m	**standard**

Your ordering data: GP02 – [A] – [B] – [C] – [D] – [E] – [F] – [G] – [H]