

Geared Potentiometer GP09

Geared Potentiometer as an absolute encoder with analog output. Compact dimensions and easy handling with a 20mm hollow shaft.



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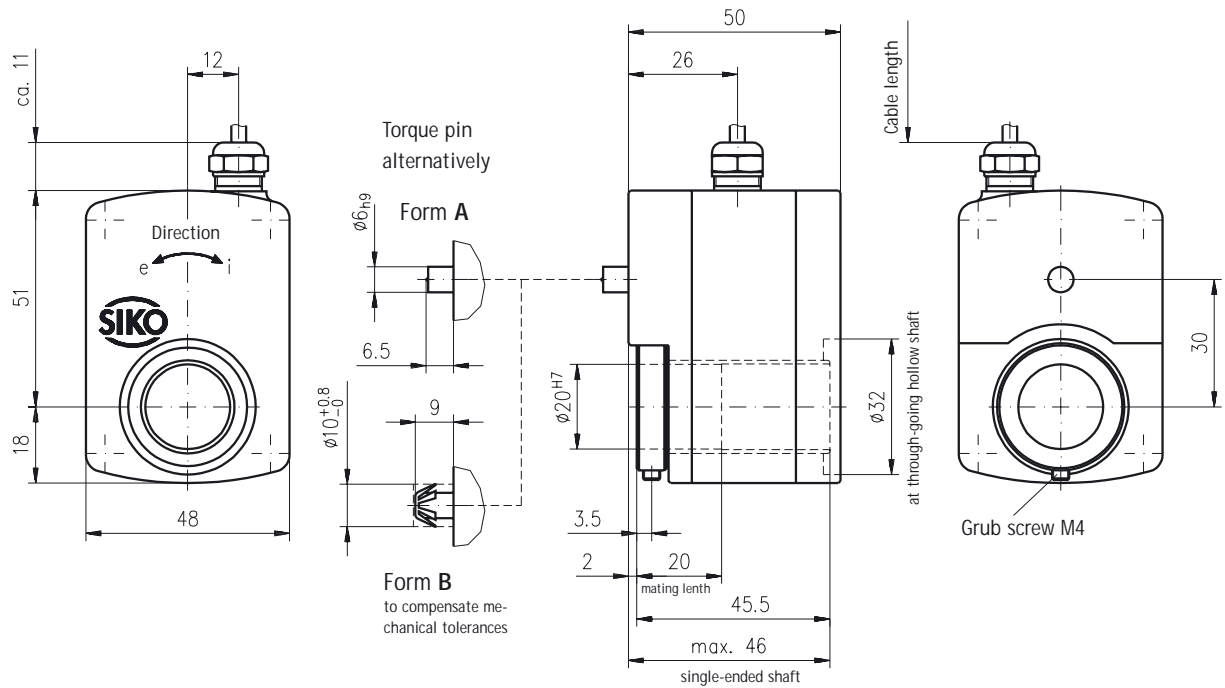
Features:

- Through-going/single ended hollow shaft max. 20mm
- High flexibility with several gear ratios
- Compact dimensions
- With integral sliding clutch to protect the potentiometer
- 4...20mA output as an option
- Protection class IP68 with oil-filled version for critical applications as an option

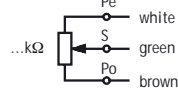
Feature	Order Text	Additional information
Gear ratio	max. 244 A	
Hollow shaft diam. (mm)	20 B	Standard
Torque support (form)	A B C	6mm Pin Compensation of mechanical tolerances
Potentiometer type	01 02 D	1-turn 10-turn
Analog output	MWI MWU P1 P5 P10 E	with transducer 4...20mA with transducer 0...10V 0 ... 1kΩ 0 ... 5kΩ 0 ... 10kΩ Potentiometer's resistance Potentiometer's resistance Potentiometer's resistance
Counting direction	i e / F	(only MWI or MWU) (only MWI or MWU) (only P1, P5 ...)
Cable length (m)	1.0 G	0.5–20.0 m Standard
Type of protection	IP52 IP65 IP68 H	Standard Oil-filled version against condensation

Your ordering: - - - - - - - -

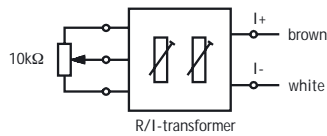
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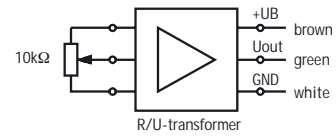
without Measurement transducer



Measurement transducer MWI



Measurement transducer MWU



Technical data

Gear ratio	0,2 ... 244
Speed	max. 500 min ⁻¹
Power supply	24 VDC ± 20 % 24 VDC ± 20 %
Temperature range	-20°C ... +70°C (+85°C) -10°C ... +70°C (+85°C) -20°C ... +70°C (+85°C)
Condensation	not permitted
Service life-operations	1 x 10 ⁶ (2 x 10 ⁶)
Certification/protection class	CE
Protection	IP52, IP65, IP68
Housing	Aluminium / plastic
Shaft	Steel / stainless steel

Additional information

depending on gear ratio

Transducer MWI (with working resistance ≤ 500Ω)
working/storage temperature without oil-filling
working temperature with oil-filling
storage temperature with oil-filling

3 corresponding to IEC 801
according to DIN VDE 0470

Electrical data Potentiometer:

Resistance tolerance	± 5%
Linearity tolerance	± 0,25%
Load capacity	1W at 70°C
Range of rotation	340° ± 5° 3600° + 10°
Standard residual end point resistance (whichever value is higher)	0,5% or 1Ω

1-turn (mechanically ricing)
10-turn