

Geared potentiometer GP43

Compact rotary encoder for absolute position sensing with integrated camshaft gear. Versions with potentiometer or current output are available.



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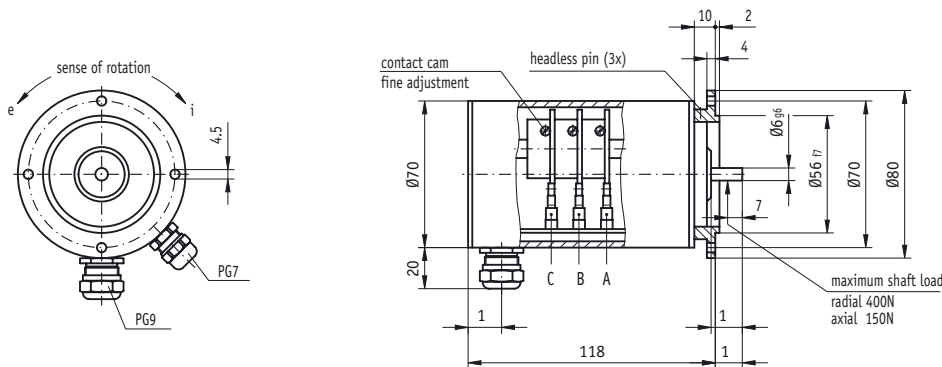
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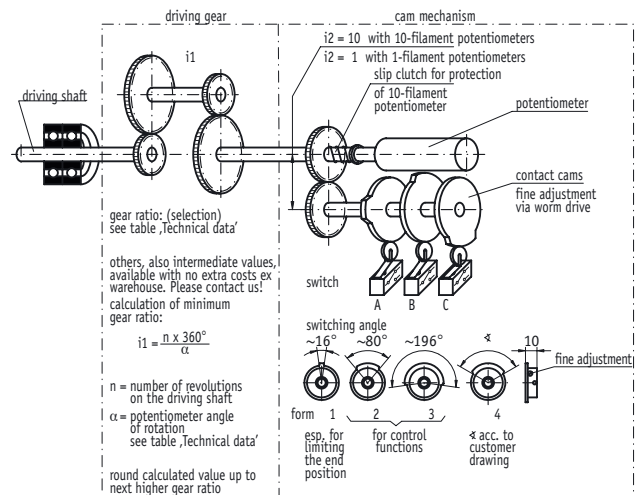
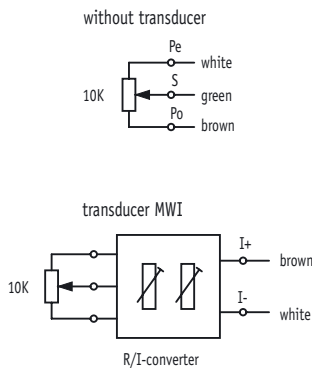


Features:

- solid shaft 6 mm
- adaptation to various measurement distances thanks to the broad range of available gear ratios
- compact design
- integrated slip clutch for potentiometer protection
- optional current interface 4... 20 mA
- optional IP65 type of protection for critical environmental conditions
- up to 3 cam switch outputs freely adjustable



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Feature	Order text	Technical data	Additional information
Gear ratio		0.2... 256	
Rotational speed		max. 500 min ⁻¹	depending on gear ratio
Supply voltage		24 V DC ± 20 %	transducer MWI (at ≤ 500 Ohm)
Working temperature		- 20 °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, IP65	acc. to DIN VDE 0470
Housing		aluminium	
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. 256	others on request
Drive shaft	V/6	B	solid shaft ø	standard
Potentiometer type	01	C	1 filament	
	02		10 filaments/ wire	
	03		10 filaments	
Resistance kOhm	1	D	1 kOhm	
	2		2 kOhm	
	5		5 kOhm	
	10		10 kOhm	
Transducer	OMW	E	without	standard
	MMW		with	current interface 4... 20 mA
Sense of rotation	i	F	see drawing	only with transducer
	e		see drawing	only with transducer
Contact cams/ form (A B C)	...	G	e.g., 1 2 3	1 = switch, angle 16°; 2 = switch, angle 80°; 2 = switch, angle 196° see drawing
Operating voltage of the contact cam	1	H	over 48 Volt	max. voltage of cam switch
	2		up to 48 Volt	

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Your ordering data: - - - - - - - -