

Electrical data

Encoder potentiometer type 02, 10 helices

Feature	Technical data	Additional information
Power rating	2 W at 70 °C	≤30 V
resistance	1, 5, 10 kΩ	
Resistance tolerance	±5 %	
Standard terminal resistance	0.2 %	
Linearity tolerance	±0.25 %	
Design	wire	

Encoder potentiometer type 03, 10 helices

Feature	Technical data	Additional information
Power rating	2 W at 70 °C	≤30 V
resistance	1, 5, 10 kΩ	
Resistance tolerance	±5 %	
Standard terminal resistance	0.2 %	
Linearity tolerance	±0.25 %	
Design	hybride	

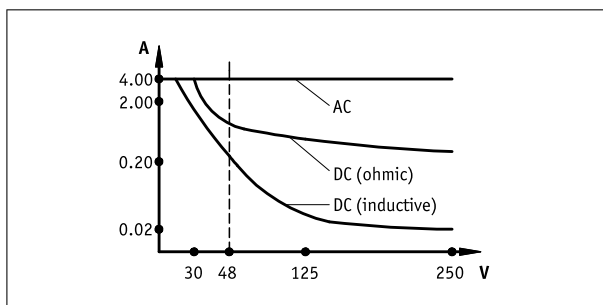
Encoder potentiometer type 03/0.1, 10 helices

Feature	Technical data	Additional information
Power rating	2 W at 70 °C	≤30 V
resistance	5, 10 kΩ	
Resistance tolerance	±5 %	
Standard terminal resistance	0.2 %	
Linearity tolerance	±0.1 %	
Design	hybride	

Transducer, power output

Feature	Technical data	Additional information
Operating voltage	24 V DC ±20 %	
Output current	4 ... 20 mA at load 500 Ω	

Load capacity of the switching cams



System data

Feature	Technical data	Additional information
Measuring range	340° ±5°, (mechanical full-length)	potentiometer type 01
	3600° +10°	potentiometer types 02, 03, 03/0.1

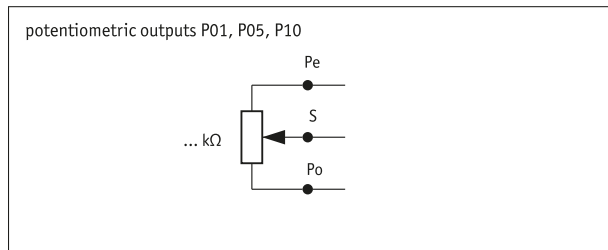
Ambient conditions

Feature	Technical data	Additional information
Ambient temperature	-20 ... 80 °C	
Relative humidity		condensation inadmissible
EMC	EN 61000-6-2	interference resistance / immission
	EN 61000-6-4	emitted interference / emission
Protection category	IP52	EN 60529

pin assignment

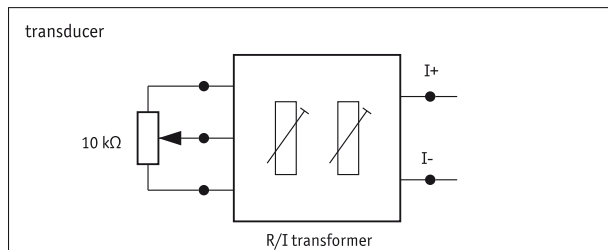
■ Potentiometric outputs P01, P05, P10

Signal	Terminal
Po	11
Pe	13
S	12



■ MMW transducer

Signal	Terminal
I+	12
I-	11
nc	13



■ Cam

Assignment	Switch cam A Terminal	Switching cam B terminal	Switching cam C terminal
	3	4	7
	2	5	8
	1	6	9

Order

■ Gear ratio calculation

$$\text{Formula: } i_1 = \frac{n \times 360^\circ}{\alpha}$$

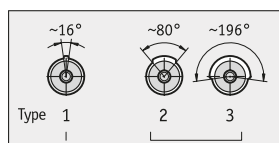
n = number of revolutions on the driving shaft
 α = potentiometer angle of rotation
 340° with 1-coil potentiometer
 3600° with 10-coil potentiometer
 i1 = order feature for gear ratio

If the calculated ratio "i1" is the same as a value in the ordering table for the "ratio" feature, but this is not available, select the next highest ratio.

■ Switch cam order

Digit 1	"Digit 2"	Digit 3	Ordering data
Cam shape 2			2
Cam shape 1	Cam shape 3		13
Cam shape 1	Cam shape 2	Cam shape 3	123

Example of order table, characteristic G



Switching angle of the 3 switching cams:
 specifically for end position limiter (1), for control functions (2, 3).

■ Ordering table

Geared potentiometer GP44

With solid or blind hole shaft

Feature	Ordering data	Spezifikation	Additional information
Gear ratio	A ...	0.1/10, 0.1666/10, 0.2/10, 0.25/10, 0.333/10, 0.5/10, 0.5/2.5, 1, 2, 2.14, 2.500, 3, 4, 5, 6, 7, 10, 12, 14, 15, 20, 24, 25, 30, 33, 35, 40, 48, 55, 64, 70, 80, 101.5, 121, 150, 256, 463.830, 512 others on request	
drive shaft	B H/20 H/16 V/20 V/16	hollow shaft ø20 mm hollow shaft ø16 mm solid shaft ø20 mm solid shaft ø16 mm	
potentiometer type	C 01 02 03 03/0.1	1 helix, hybrid 10 helices, wire 10 helices, hybrid 10 helices, hybrid, linear tolerance ±0.1 %	
resistance	D 1 5 10	potentiometer 1 kΩ Potentiometer 5 kΩ potentiometer 10 kΩ	
transducer	E MMW OMW	transducer 4 ... 20 mA without	only for resistance 10 and potentiometer type 02 or 03
Sense of rotation	F e i	no information required counter-clockwise ascending values clockwise ascending values	only for OMW transducer only for MMW transducer only for MMW transducer
cam/form	G	1, 2, 3, 11, 12, 13, 22, 23, 33, 111, 112, 113, 122, 123, 221, 222, 223, 233, 331, 333 others on request	
switching voltage	H 1 2	over 48 V electric strength up to 48 V electric strength	

Order key

GP44 - - - - - - - -



Scope of delivery:
GP44, Installation Instructions



Accessories you can find:
Measurement display MA50

www.siko-global.com