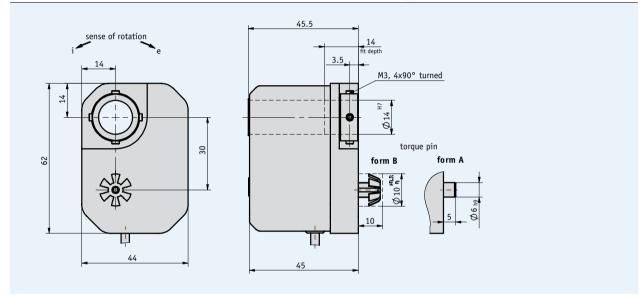
Profile

- Through hollow shaft Ø 14 mm
- Adaptation to various measurement paths owing to a wide range of gear ratios
- Compact, low-cost design
- Potentiometer or power output
- Easy mounting





Mechanical data

Feature	Technical data	Additional information
Gear ratio	0.2 128	
Speed	max. 500 rpm	depending on gear ratio
Operating temperature	0 +80 °C	
Condensation	inadmissible	
Service life of axial movement	1 x 10 ⁶	with P01, P02
	2 x 10 ⁶	with P03
Protection category	IP52	according to DIN VDE 0470
Shaft	browned steel, Ø 14 mm	
Housing	plastic	

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Electrical data

Feature	Technical data	Additional information
Interference protection class	3	according to IEC 801

Analog outputs

Feature	Technical data	Operating voltage
Potentiometer output	$0 1 k\Omega, 0 5 k\Omega, 0 10 k\Omega$	
	depending on the potentiometer type use	ed
Power output	4 20 mA	24 V DC ±20 %, with load ≤ 500 Ω

Potentiometer type

Feature	01	02	03/0.1
Design	hybrid	wire	hybrid
Resistance	1 kΩ, 5 kΩ, 10 kΩ	1 kΩ, 5 kΩ, 10 kΩ	1 kΩ, 5 kΩ, 10 kΩ
Resistance tolerance	±5 %	±5 %	±5 %
Linearity tolerance	±0.25 %	±0.25 %	±0.1 %
Load rating	1 W at 70 °C	1 W at 70 °C	2 W at 70 °C
Range of rotation	340° ±5° (mechanically straight-through)	3600° ±10°	3600° ±10°
Standard terminal resistor (the higher value is always valid)	0.5 % or 1 Ω	0.5 % or 1 Ω	0.5 % or 1 Ω

Note: Characters highlighted in orange color are order features.

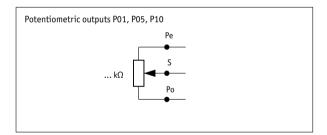
Pin assignment

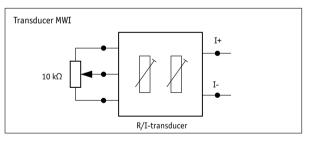
Potentiometric outputs P01, P05, P10

Signal	Cable color
Po	brown
Pe	white
S	green

Transducer MWI

Signal	Cable color
I+	brown
I-	white





2.3

Order

Ratio calculation (order table, feature A)

Formula: i1 =
$$\frac{n \times 360^{\circ}}{\alpha}$$

- n = number of revolutions on the
 driving shaft
- lpha = 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.

Order table

Order data	Specifications	Additional information
	0.2, 0.25, 0.333, 0.5, 1, 2, 3, 4, 5, 6, 7, 9,	
	10, 12, 15, 16, 20, 203.636, 24, 28, 30,	
	36, 36.571, 48, 55, 68, 80, 112, 128	
	others on request	
Α	form A, cylindric pin	
В	form B for tolerance compensation	
01	1 coil, hybrid	
02	10 coils, wire	
03	10 coils, hybrid	
03/0,1	10 coils, hybrid, linear tolerance 0.1	
P01	resistance 1 kΩ	
P05	resistance 5 kΩ	
P10	resistance 10 kΩ	
MWI	transducer 4 20 mA	only with P10 and potentiometer type 02 or 03
OMW	without	
ODR	without indication of sense of rotation	with P01, P05 or P10
е	counter-clockwise ascending values	with MWI
i	clockwise ascending values	with MWI
	-	
	0.2 15 m in steps of 0.1 m	
	A B 01 02 03 03/0,1 P01 P05 P10 MWI OMW ODR e i	

Order code

