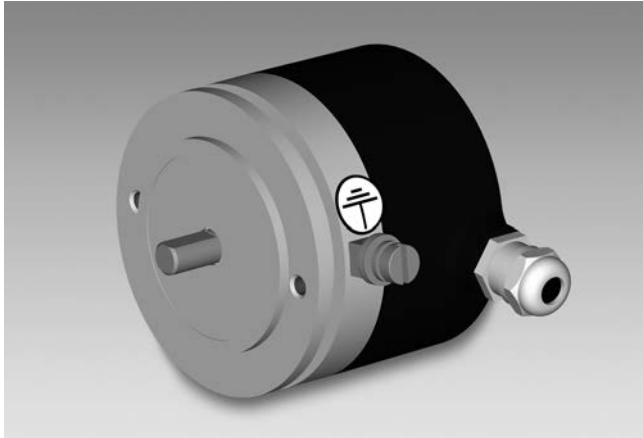


# Tachogenerators

Solid shaft  $\varnothing 6$  mm with synchro flange

Nominal voltage 7...15 VDC

## KTD 2-... B14



KTD 2-... B14 with synchro flange

### Features

- High response speed
- Solid shaft  $\varnothing 6$  mm with synchro flange
- Wide rotation speed range
- Recognition of sense of rotation
- Low harmonic content
- No auxiliary energy source required

### Technical data - electrical ratings

Polarity	Depending on rotational direction
Number of pole pairs	2 = 4 poles
Number of grooves, segments	29
Groove frequency	$f_N = 29/30 \times n$
Reversal tolerance	$\leq 0.4$ %
Linearity tolerance	$\leq 0.2$ %
Lower limit of control range	0 rpm
Temperature coefficient	$\pm 0.2$ %/10 K (-10...+100 °C)
Isolation class	B
Carbon brush lifetime approx.	40000 Operating hours
Nominal voltage	7...15 V
Interference immunity	DIN EN 61000-6-2
Emitted interference	DIN EN 61000-6-3

### Technical data - mechanical design

Size (flange)	$\varnothing 54$ mm
Shaft type	$\varnothing 6$ mm solid shaft
Flange	Synchro flange
Protection DIN EN 60529	IP 55
Operating speed	$\leq 8000$ rpm
Rotor moment of inertia	130 gcm <sup>2</sup>
Materials	Housing: plastic, black Shaft: stainless steel
Operating temperature	-20...+100 °C
Weight approx.	290 g
Connection	Screw terminal connector, 2-pin

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Nominal voltage 7...15 VDC

KTD 2-... B14

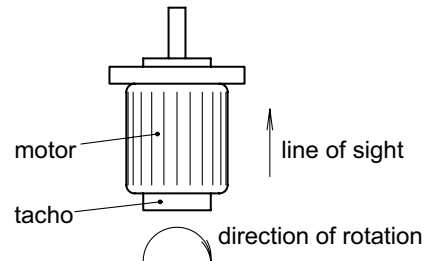
## Part number

KTD 2-   B14

	Nominal voltage
0,7	7 V
1	10 V
1,5	15 V

## Terminal assignment

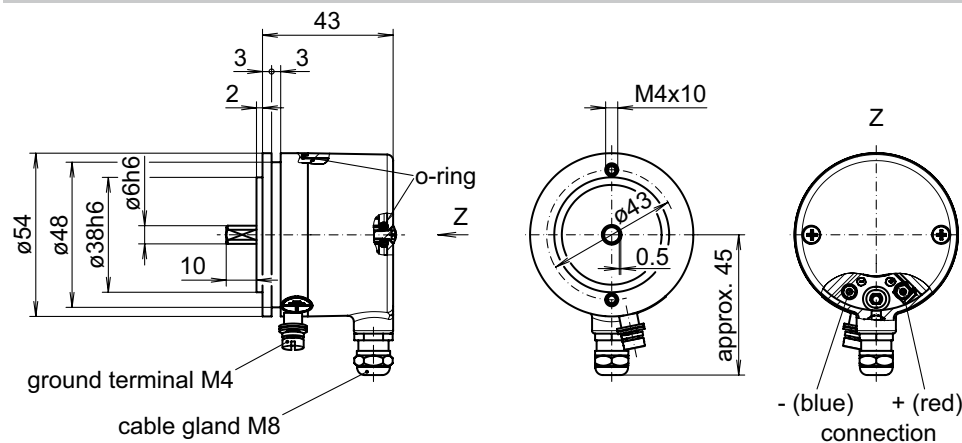
Marking	Polarity
red	positive
blue	negative



## Data according to type

Type	Rated voltage $U_N$	Rated current $I_N$	max. current $I$	min. load resistance	Armature resistance $R_A (20^\circ\text{C})$
(Electrical data according to 1000 rpm)	[mV/min <sup>-1</sup> ]	[mA]	[mA]	[k $\Omega$ ]	[ $\Omega$ ]
KTD 2-0.7 B14	7	2.1	40	3.3	60
KTD 2-1 B14	10	1	25	10	85
KTD 2-1.5 B14	15	1	15	15	345

## Dimensions



022-33