

Tachogenerators

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
- Open circuit voltage 7...15 mV per rpm
- Shaft $\varnothing 6$ mm with synchro flange
- Wide rotation speed range
- Recognition of sense of rotation
- Low harmonic content
- No auxiliary energy source required

Optional

- Connection: Cable 2×0.5 mm², ... m
- Configuration B10 (clamping flange)

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	≤ 0.4 %
Linearity tolerance	≤ 0.2 %
Regulation range minimum limit	0 rpm
Temperature coefficient	± 0.2 %/10 K (-10...+100 °C)
Isolation class	B
Carbon brush service life approx.	40000 Operating hours
Open-circuit voltage	7...15 mV per rpm

Technical data - mechanical design

Dimensions (flange)	$\varnothing 54$ mm
Shaft	$\varnothing 6$ mm
Flange	Synchro flange
Protection DIN EN 60529	IP 55
Operating speed	≤ 8000 rpm
Rotor moment of inertia	130 gcm ²
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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Part number

KTD 2- B14

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

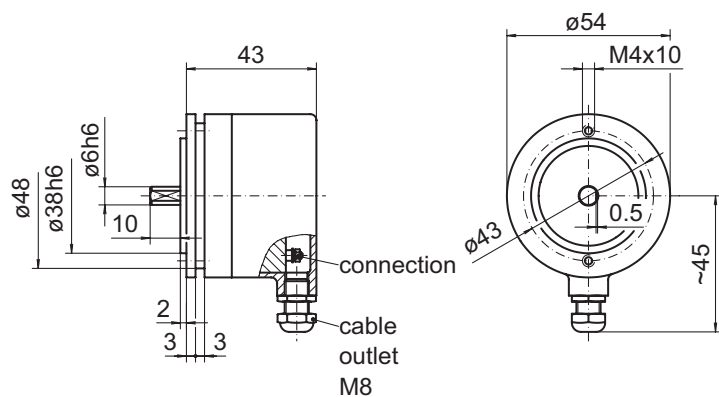
Terminal assignment

Marking	Polarity
red	positive
blue	negative

Data according to type

type	rated voltage	rated current	max. current	min. load resistance	armature resistance
KTD 2-0.7 – B14	7 V	2.1 mA	40 mA	3,3 k Ω	60 Ω
KTD 2-1 – B14	10 V	1 mA	25 mA	10 k Ω	85 Ω
KTD 2-1.5 – B14	15 V	1 mA	15 mA	15 k Ω	345 Ω

Dimensions



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