

Brushless trapezoidal waveform tachogenerator

BLTD 1 A4



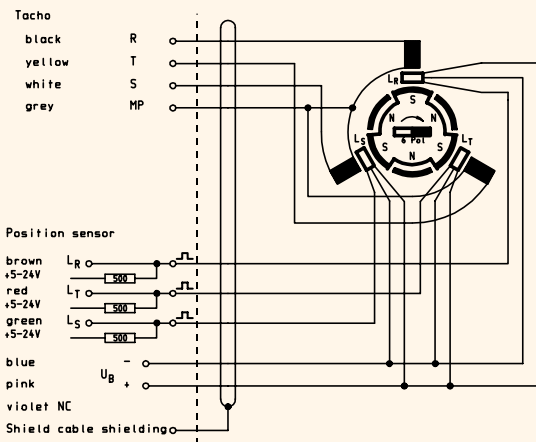
Elektrical data:

Output signal waveform	Tacho	trapezoidal
Output voltage	U_{peak}	$3 \times 10 V_{peak} \sim \pm 5 \%$
Number of pole pair	P3	3 = 6-poles
Residual ripple of the straight sectors		$\leq 2 \%$
Internal resistance phase - star point		$160 \Omega \pm 10 \%$
Phase amplitude difference	ΔU	$\pm 2 \%$
Output voltage	U_{max}	$\leq 100 V_{peak} \sim$
Phase loading	I_{max}	$\leq 1 \text{ mA at top rpm}$
Output signal waveform	Positioning sensor	rectangle
Pulse ratio		1:1 (for tolerances see output signals)
Voltage supply	U_B	5 ... 24 VDC, protection against polarity reversal
Output amplitude		$U_B - 1,2 \text{ V, max. } 30 \text{ mA}$
Type of connection	KR0,4	cable, radial, 0.4 m (10 x 0.14 mm ² , shielded)
Operating temperature range	S	- 40 °C to + 100 °C
Temperature coefficient	Magnet	+ 0,25 % / K
Maintenance		maintenance - free

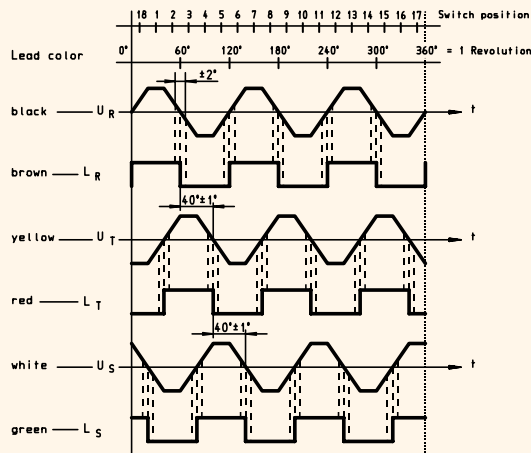
Options:

- Position sensor signal negativ in phase with trapezoidal signal
- Output voltage (Trapezoidal signal) $3 \times 4 V_S \pm 5 \%, 3 \times 6 V_S \sim \pm 5 \%, 3 \times 8 V_S \sim \pm 5 \%$
- Number of pole pair **P2** 2 = 4-poles

Connection table:



Output signal:



Clockwise rotation shown (looking at shaft end)
R, T, S, with positon sensor signal positive in phase

Ordering example:

BLTD 1	A 4		P3	10	P	KR0.3	10	IP00
Trapez tachogenerator BLTD 1	Design style A 4	Mechanical variante Y... = look at the drawing	Number of pole pair 3 = 6-poles	Trapez- signal amplitude 10Vs at 1000 1/rpm	Position sensor signal Position signal positiv in phase	Type of connection Cable, radial, 0.3 m	Bore diameter 10 mm	Protective class IP 00