

Incremental encoders

Twin encoder, shaft with EURO flange B10

Resolution 1...2500 pulses

POG 9 G



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Features

- Twin-encoder featuring two separate systems
- Encoder with shaft $\varnothing 11$ mm
- Optical sensing
- EURO flange B10
- Logic level TTL or HTL
- Suitable to drive for lines max. 500 m (TTL)
- Temperature max. $+100$ °C

Technical data - electrical ratings

Voltage supply	5 VDC ± 5 % 9...26 VDC 9...30 VDC
Consumption w/o load	≤ 100 mA
Resolution (steps/turn)	1...2500
Phase shift	$90^\circ \pm 20^\circ$
Scan ratio	40...60 %
Reference signal	Zero pulse, width 90°
Sensing method	Optical
Output frequency	≤ 120 kHz
Output signals	K1, K2, K0 + inverted
Output circuit	TTL (RS422) HTL (power linedriver)
Interference immunity	DIN EN 61000-6-2
Emitted interference	DIN EN 61000-6-4
Approval	UL approval / E256710

Technical data - mechanical design

Dimensions (flange)	$\varnothing 90$ mm
Shaft	$\varnothing 11$ mm
Shaft loading	≤ 250 N axial ≤ 350 N radial
Flange	EURO flange B10
Protection DIN EN 60529	IP 56
Operating speed	≤ 12000 rpm (mechanical)
Operating torque typ.	2 Ncm
Rotor moment of inertia	200 gcm ²
Materials	Housing: aluminium die-cast Shaft: stainless steel
Operating temperature	$-30...+100$ °C
Resistance	IEC 60068-2-6 Vibration 10 g, 10-2000 Hz IEC 60068-2-27 Shock 300 g, 1 ms
Explosion protection	II3G Ex nA IIC T4 Gc (gas) II3D Ex tc IIIB T135°C Dc (dust)
Connection	Terminal box
Weight approx.	1.7 kg

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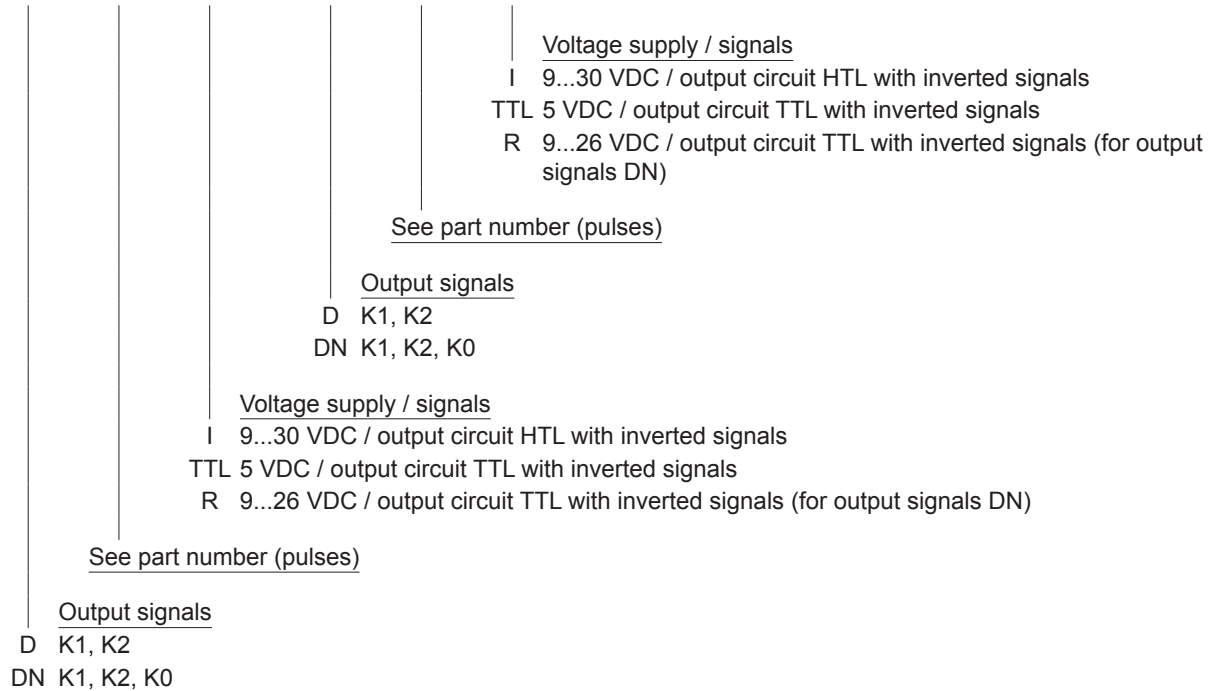
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Part number

POG 9 G

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Other pulse numbers upon request.

Part number (pulses)

1	12	72	256	1000
2	15	80	300	1024
3	25	100	360	1042
4	30	120	400	1200
5	40	176	500	1250
6	50	180	512	2048
8	60	192	600	2500
10	62	200	720	
11	64	250	900	

Accessories

Connectors and cables

HEK 8 Sensor cable for encoders

Mounting accessories

K 35 Spring disk coupling for shaft $\varnothing 6...12$ mm

K 50 Spring disk coupling for shaft $\varnothing 11...16$ mm

K 60 Spring disk coupling for shaft $\varnothing 11...22$ mm

Diagnostic accessories

HENQ 1100 Analyzer for encoders

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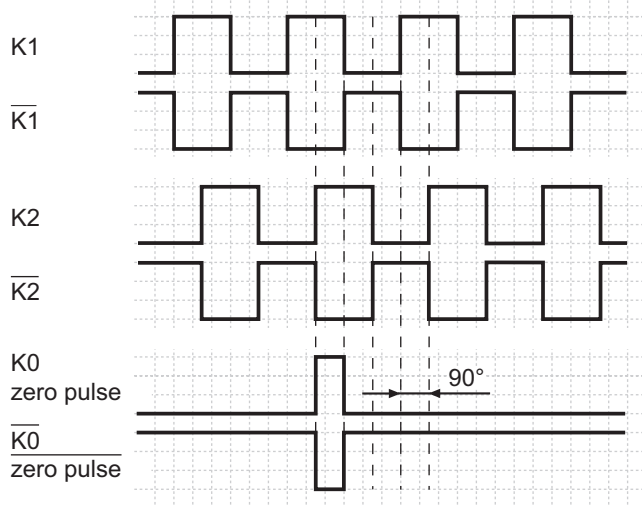
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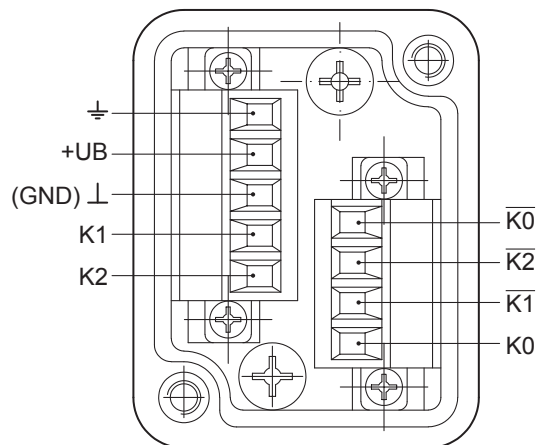
Output signals

at positive rotating direction



Terminal assignment

View A - Connecting terminal in terminal box



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Dimensions

