Incremental encoders

Twin-encoder, shaft ø11 mm with EURO flange B10

Resolution 1...2500 pulses

POG 10 G

POG 10 G

Features

- **Twin-encoder featuring two separate systems**
- **Logic level TTL or HTL**
- **Suitable to drive for lines max. 500 m (TTL)**
- **High resistance to shock and vibrations**
- **Big terminal box, turn by 180°**

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° ±20°
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)	ø115 mm
Shaft	ø11 mm
Shaft loading	≤300 N axial ≤450 N radial
Flange	EURO flange B10
Protection DIN EN 60529	IP 66
Operating speed	≤12000 rpm (mechanical)
Operating torque typ.	2 Ncm
Rotor moment of inertia	200 gcm²
Materials	Housing: aluminium die-cast Shaft: stainless steel
Operating temperature	-40...+100 °C
Resistance	IEC 60068-2-6 Vibration 20 g, 10-2000 Hz IEC 60068-2-27 Shock 200 g, 6 ms
Explosion protection	II3G Ex nA IIC T4 Gc (gas) II3D Ex tc IIIC T135°C Dc (dust)
Connection	Terminal box
Weight approx.	2.4 kg

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Part number

Incremental encoder

POG 10 G | | | | | | - | | | | | |

Voltage supply / signals
- I 9...30 VDC / output circuit HTL with inverted signals
- TTL 5 VDC / output circuit TTL with inverted signals (for output signals DN)
- R 9...26 VDC / output circuit TTL with inverted signals (for output signals DN)

See part number (pulses)

Output signals
- D K1, K2
- DN K1, K2, K0

Voltage supply / signals
- I 9...30 VDC / output circuit HTL with inverted signals
- TTL 5 VDC / output circuit TTL with inverted signals (for output signals DN)
- R 9...26 VDC / output circuit TTL with inverted signals (for output signals DN)

See part number (pulses)

Output signals
- D K1, K2
- DN K1, K2, K0

Other pulse numbers upon request.

Part number (pulses)

1	11	62	192	512
2	12	64	200	600
3	15	72	250	720
4	25	80	256	900
5	30	100	300	1000
6	40	120	360	1024
8	50	128	400	2048
10	60	180	500	2500

Accessories

Connectors and cables

HEK 8	Sensor cable for encoders

Mounting accessories

K 35	Spring disk coupling for shaft ø6...12 mm
K 50	Spring disk coupling for shaft ø11...16 mm
K 60	Spring disk coupling for shaft ø11...22 mm

Diagnostic accessories

HENQ 1100	Analyzer for encoders

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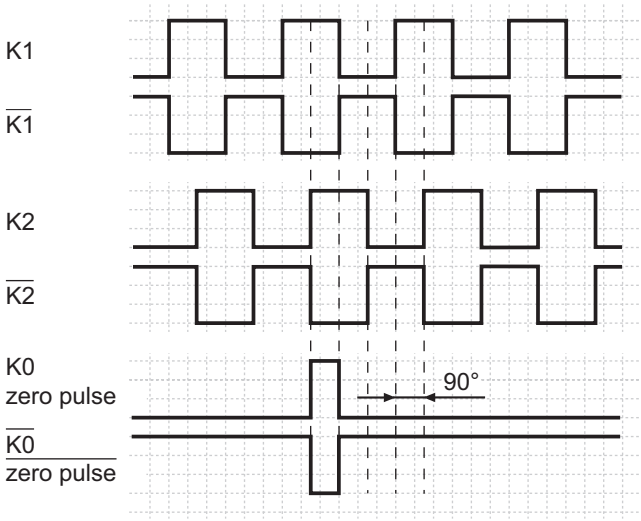
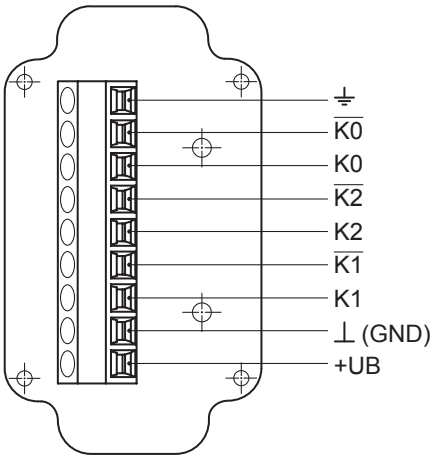
Output signals

at positive rotating direction



Terminal assignment

View A - Connecting terminal in terminal box



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Dimensions