

Incremental encoders

Solid shaft with EURO flange B10

1024...10000 pulses per revolution

POG 90



POG 90

Technical data - electrical ratings

Voltage supply	9...30 VDC 5 VDC \pm 5 % 9...26 VDC
Consumption w/o load	\leq 100 mA
Pulses per revolution	1024...10000
Phase shift	90° \pm 8°
Scan ratio	44...56 %
Reference signal	Zero pulse, width 90°
Sensing method	Optical
Output frequency	\leq 250 kHz
Output signals	K1, K2, K0 + inverted
Output stages	HTL TTL/RS422
Interference immunity	EN 61000-6-2
Emitted interference	EN 61000-6-3
Approvals	CE, UL approval / E256710

Features

- Encoder with solid shaft \varnothing 11 mm
- EURO flange B10
- Large terminal box, turn by 180°
- Optical sensing method
- Max. 10000 pulses per revolution
- Output stage HTL or TTL
- Output stage TTL with regulator UB 9...26 VDC

Optional

- Second shaft end
- Housing foot (B3)

Technical data - mechanical design

Size (flange)	\varnothing 115 mm
Shaft type	\varnothing 11 mm solid shaft
Admitted shaft load	\leq 250 N axial \leq 350 N radial
Flange	EURO flange B10
Protection DIN EN 60529	IP 66
Operating speed	\leq 10000 rpm (mechanical)
Operating torque typ.	2 Ncm
Rotor moment of inertia	320 gcm ²
Materials	Housing: aluminium die-cast alloy and stainless steel Shaft: stainless steel
Operating temperature	-20...+85 °C
Resistance	IEC 60068-2-6 Vibration 10 g, 10-2000 Hz IEC 60068-2-27 Shock 100 g, 11 ms
Corrosion protection	IEC 60068-2-52 Salt mist Complies to ISO 12944-5:1998 Protective paint systems (C4)
Explosion protection	II 3 G Ex nA IIC T4 Gc (gas) II 3 D Ex tc IIIC T135°C Dc (dust)
Connection	Terminal box
Weight approx.	1.8 kg

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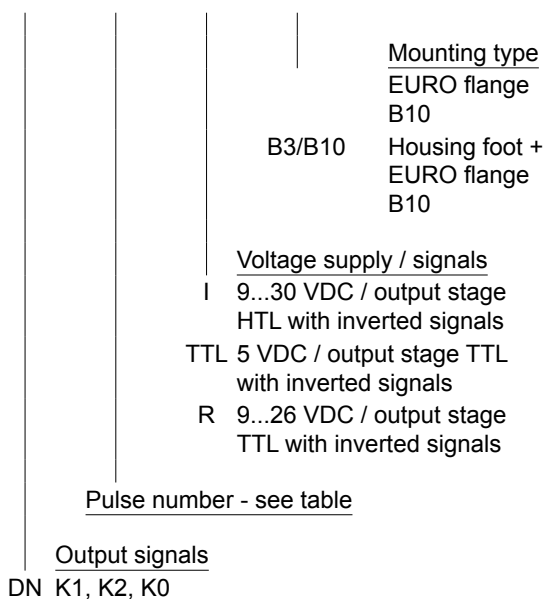
1024...10000 pulses per revolution

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Part number

Incremental encoder

POG90 **DN**



Accessories

Connectors and cables

HEK 8 Sensor cable for encoders

Mounting accessories

K 35 Spring washer coupling
for solid shaft \varnothing 6...12 mm

K 50 Spring washer coupling
for solid shaft \varnothing 11...16 mm

K 60 Spring washer coupling
for solid shaft \varnothing 11...22 mm

Diagnostic accessories

HENQ 1100 Analyzer for encoders

Pulse number

1024	2048	3072	4096	10000
2000	2500	3600	5000	

Other pulse numbers on request.

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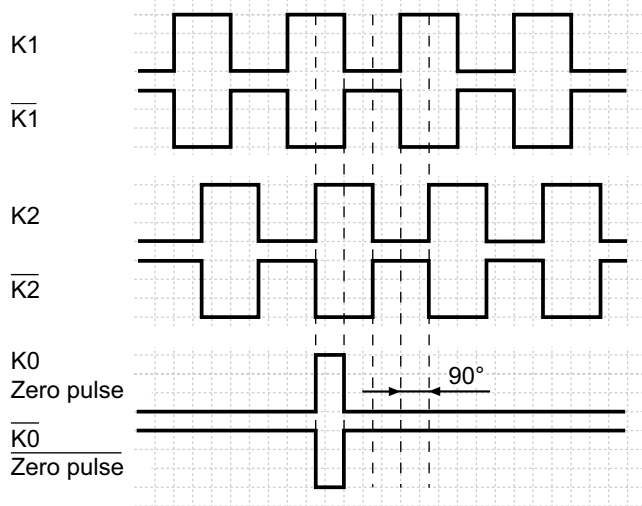
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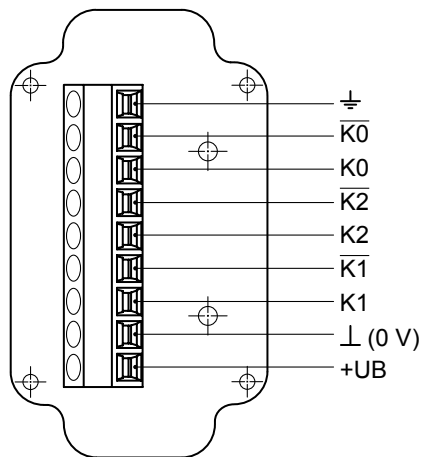
Output signals

At positive rotating direction



Terminal assignment

View A - Connecting terminal in terminal box



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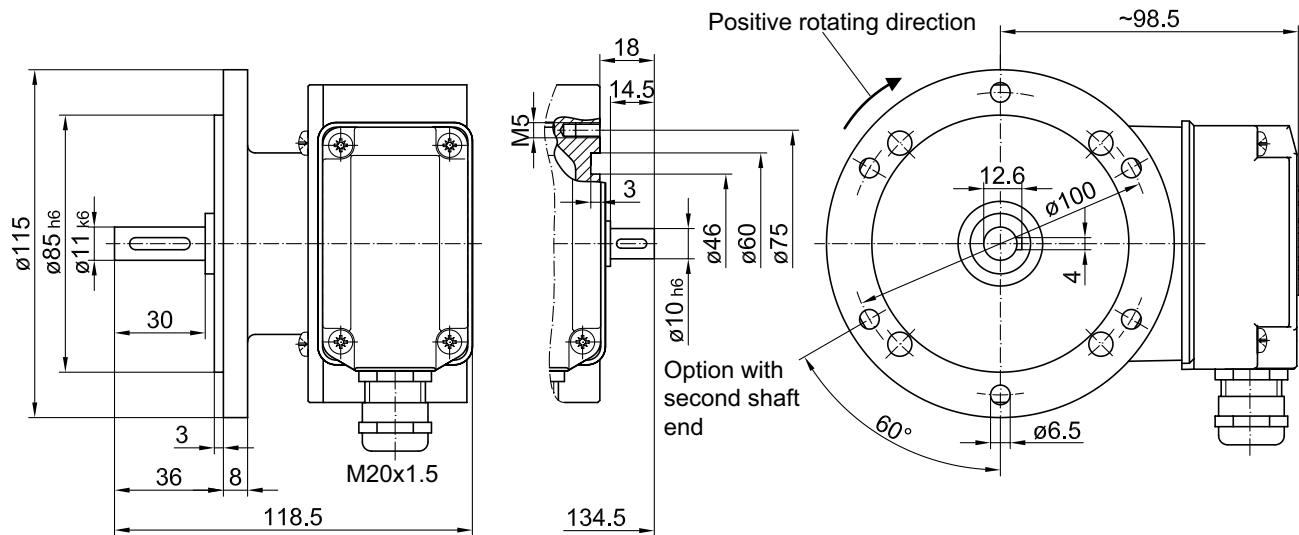
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Dimensions

POG 90 - Version with Euro flange (B10)



POG 90 - Version with Euro flange (B10) and housing foot (B3)

