

Incremental encoders

Solid shaft ø6 mm with synchro flange
100...1024 pulses per revolution

OG 71



OG 71

Features

- Robust aluminium housing
- Encoder with solid shaft ø6 mm
- Optical sensing
- Synchro flange
- Very high resistance to shock
- Logic level TTL with regulator UB 9...26 VDC

Technical data - electrical ratings

Voltage supply	9...26 VDC 5 VDC ±5 %
Consumption w/o load	< 100 mA
Pulses per revolution	100...1024
Phase shift	90° ±20°
Scan ratio	40...60 %
Reference signal	Zero pulse, width 90°
Sensing method	Optical
Output frequency	≤120 kHz
Output signals	A, B, C + inverted
Output stages	HTL TTL/RS422
Interference immunity	EN 61000-6-2
Emitted interference	EN 61000-6-3
Approvals	CE, RoHS, UL approval / E256710

Technical data - mechanical design

Size (flange)	ø58 mm
Shaft type	ø6 mm solid shaft
Shaft loading	≤30 N axial ≤40 N radial
Flange	Synchro flange
Protection DIN EN 60529	IP 66
Operating speed	≤10000 rpm (mechanical)
Operating torque typ.	1 Ncm
Rotor moment of inertia	25 gcm ²
Materials	Housing: aluminium die-cast Shaft: stainless steel
Operating temperature	-20...+85 °C
Resistance	IEC 60068-2-6 Vibration 10 g, 10-2000 Hz IEC 60068-2-27 Shock 300 g, 6 ms
Explosion protection	II 3 G Ex nA IIC T4 Gc X (gas) II 3 D Ex tc IIIC T85°C Dc X (dust)
Connection	Connecting terminal
Weight approx.	300 g

Incremental encoders

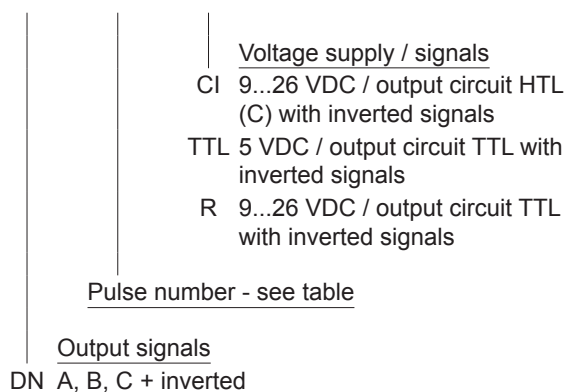
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Part number

Incremental encoder

OG 71 **DN**



Pulse number

100	256	400	512	1000
200	360	500	720	1024

Other pulse numbers on request.

Accessories

Eccentric disks
(clamping claws)

Connectors and cables

HEK 8 Sensor cable for encoders

Mounting accessories

K 35 Spring disk coupling
for solid shaft ø6...12 mm

Diagnostic accessories

HENQ 1100 Analyzer for encoders

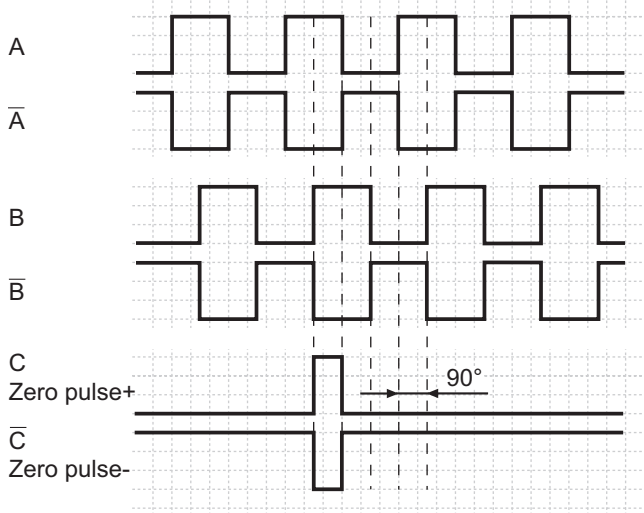
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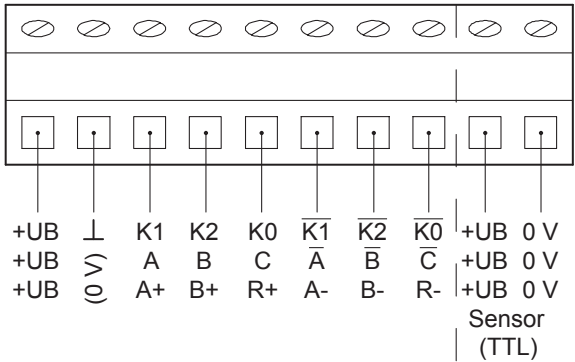
Output signals

At positive rotating direction

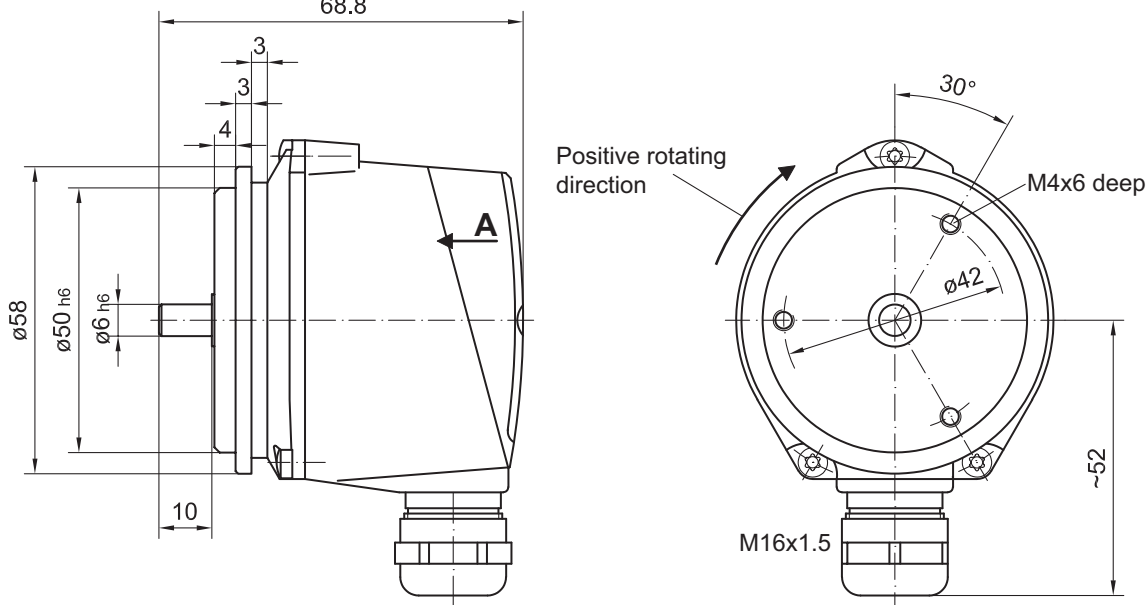


Terminal assignment

View A - Connecting terminal inside the encoder



Dimensions



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