

Incremental encoders

Solid shaft $\varnothing 11$ mm with EURO flange B10

1...5000 pulses per revolution

OG 8



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Features

- Robust aluminium housing
- Solid shaft $\varnothing 11$ mm
- Optical sensing method
- EURO flange B10
- Output stage HTL or TTL
- Output stage 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	1...5000
Phase shift	$90^\circ \pm 20^\circ$
Scan ratio	40...60 %
Reference signal	Zero pulse, width 90°
Sensing method	Optical
Output frequency	≤ 120 kHz ≤ 300 kHz (on request)
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

Technical data - mechanical design

Size (flange)	$\varnothing 115$ mm
Shaft type	$\varnothing 11$ mm solid shaft
Admitted shaft load	≤ 50 N axial ≤ 60 N radial
Flange	EURO flange B10
Protection DIN EN 60529	IP 54
Operating speed	≤ 12000 rpm (mechanical)
Operating torque typ.	1 Ncm
Rotor moment of inertia	18 gcm ²
Materials	Housing: aluminium die-cast Shaft: stainless steel
Operating temperature	$-30 \dots +85$ °C $-25 \dots +85$ °C (>3072 pulses per revolution)
Resistance	IEC 60068-2-6 Vibration 10 g, 10-2000 Hz IEC 60068-2-27 Shock 100 g, 6 ms
Connection	Connecting terminal
Weight approx.	700 g

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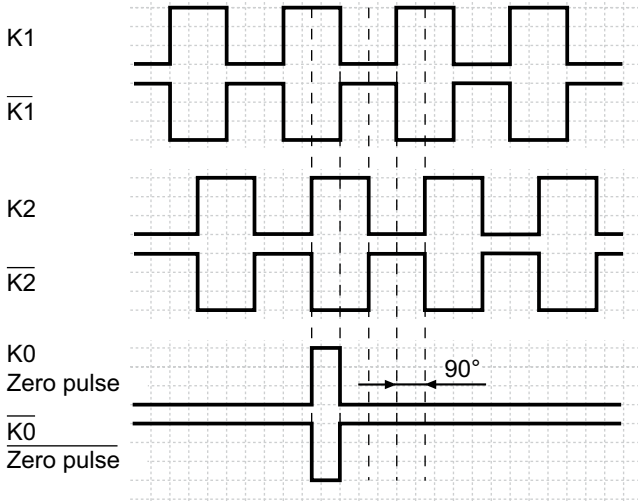
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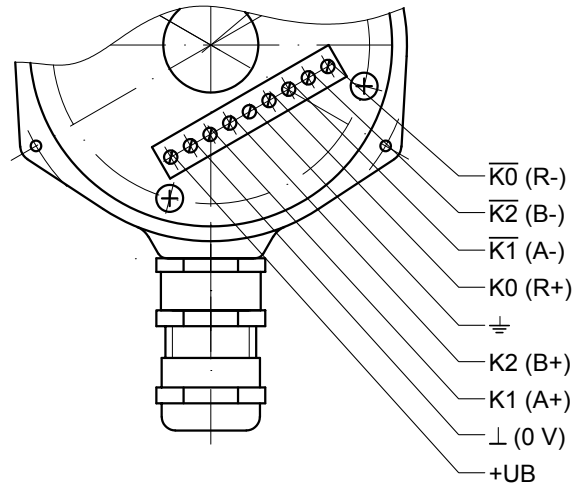
Output signals

At positive rotating direction

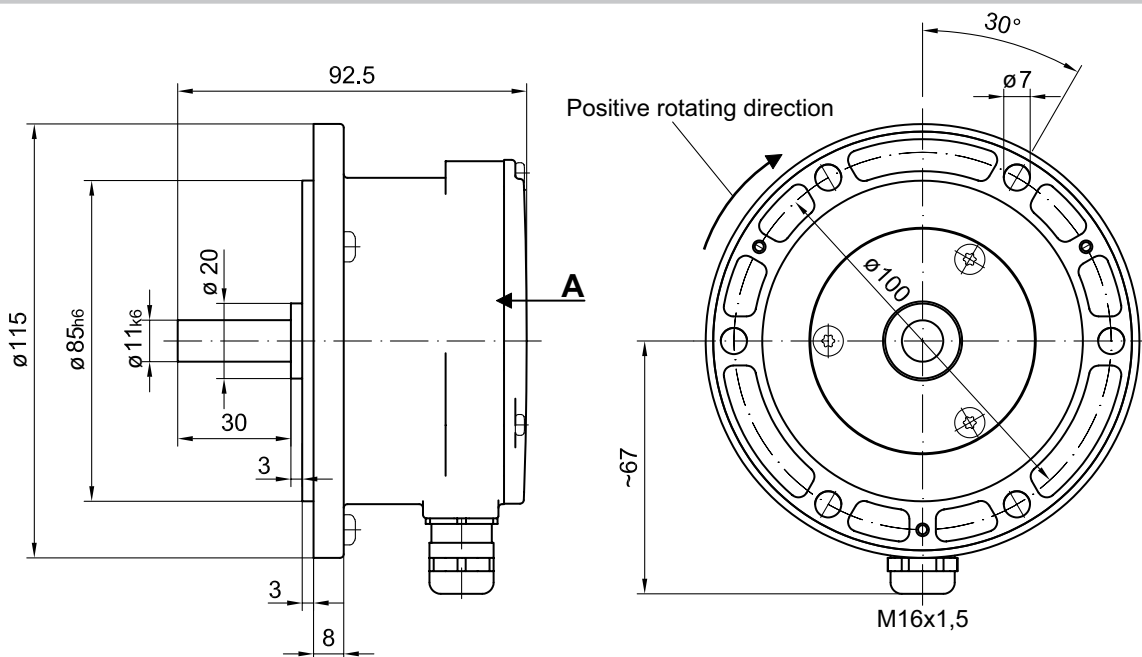


Terminal assignment

View A - Connecting terminal



Dimensions



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