Incremental encoder

POG9 DN 1024 I

Solid shaft with EURO flange B10, 1024 pulses per revolution

Article number: 11071531

Overview

- Double-side bearing with hybrid bearing for extended service life
- High resistance to shock and vibration
- Terminal boxes, turn by 180°
- HTL output driver for cable length up to 350 m



Technical data

Technical data - electrical ratings	
Voltage supply	9...30 VDC
Consumption w/o load	≤100 mA
Pulses per revolution	1024
Phase shift	90 ° ±20°
Duty cycle	40…60 %
Reference signal	Zero pulse, width 90°
Sensing method	Optical
Output frequency	≤120 kHz
Output signals	K1, K2, K0 + inverted
Output stages	HTL-P (power linedriver)
Interference immunity	EN 61000-6-2
Emitted interference	EN 61000-6-3
Approval	CE UL approval / E217823
Technical data - mechanical design	
Size (flange)	ø115 mm
Shaft type	ø11 mm solid shaft

Technical data - mechanical design	
Admitted shaft load	≤250 N axial ≤350 N radial
Flange	EURO flange B10
Protection EN 60529	IP 56
Operating speed	≤12000 rpm (mechanical)
Operating torque typ.	2 Ncm
Rotor moment of inertia	200 gcm²
Material	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
Corrosion protection	IEC 60068-2-52 Salt mist for ambient conditions CX (C5-M) according to ISO 12944-2
Connection	Terminal box
Weight approx.	1.4 kg

2025-11-17 The product features and technical data specified do not express or imply any warranty. Technical modifications subject to change.

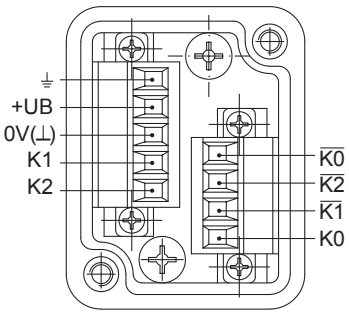
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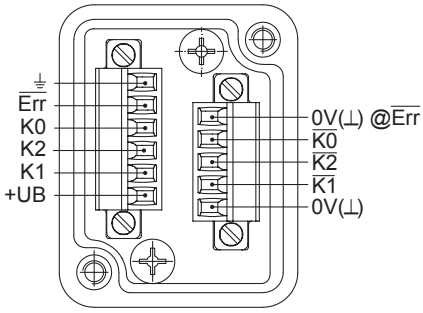
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Terminal assignment

View A *(see dimension)*
Connecting terminal terminal box



Option EMS: View A *(see dimension)*
Connecting terminal terminal box

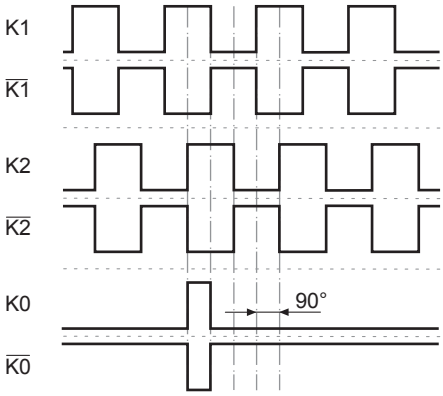


Terminal significance

+UB	Voltage supply
0V (⊥)	Ground
⏚	Earth ground (housing)
K1	Output signal channel 1
$\overline{K1}$	Output signal channel 1 inverted
K2	Output signal channel 2 (offset by 90° to channel 1)
$\overline{K2}$	Output signal channel 2 inverted
K0	Zero pulse (reference signal)
$\overline{K0}$	Zero pulse inverted
$\overline{Err}$	Error output (option EMS)

Output signals

HTL/TTL
At positive rotating direction *(see dimension)*



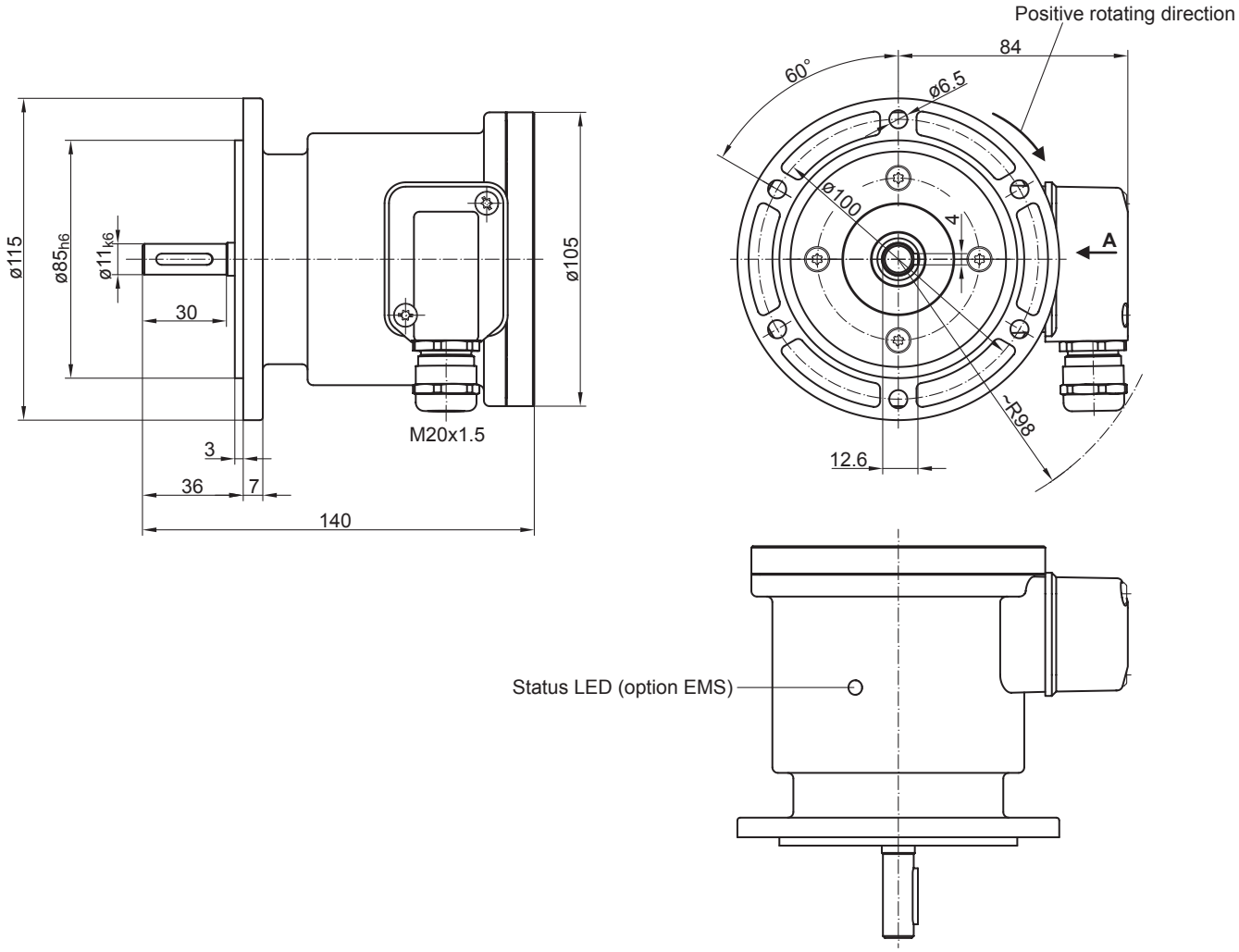
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Dimensions



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