Incremental encoder

POG10 DN 1024 I

Solid shaft with EURO flange B10, 1024 pulses per revolution

Article number: 11042716

Overview

- HTL output driver for cable length up to 350 m
- Very high resistance to shock and vibrations
- Double-side bearing for extended service life
- Big terminal boxes, turn by 180°

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	≤300 N axial ≤450 N radial
Flange	EURO flange B10
Protection EN 60529	IP 66
Operating speed	≤12000 rpm (mechanical)
Operating torque typ.	2 Ncm
Rotor moment of inertia	212 gcm²
Material	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
Corrosion protection	IEC 60068-2-52 Salt mist for ambient conditions C4 according to ISO 12944-2
Connection	Terminal box
Weight approx.	1.9 kg

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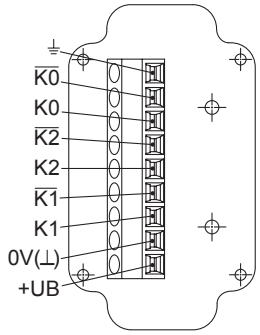
Terminal assignment

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

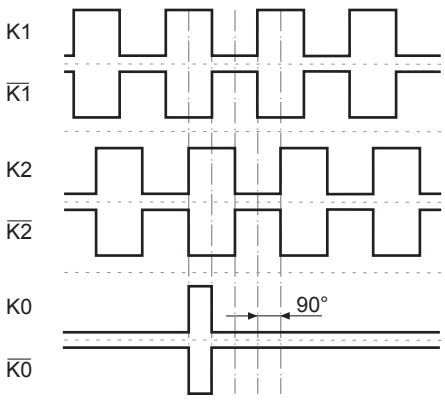


Terminal significance

+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
dnu	Do not use

Output signals

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



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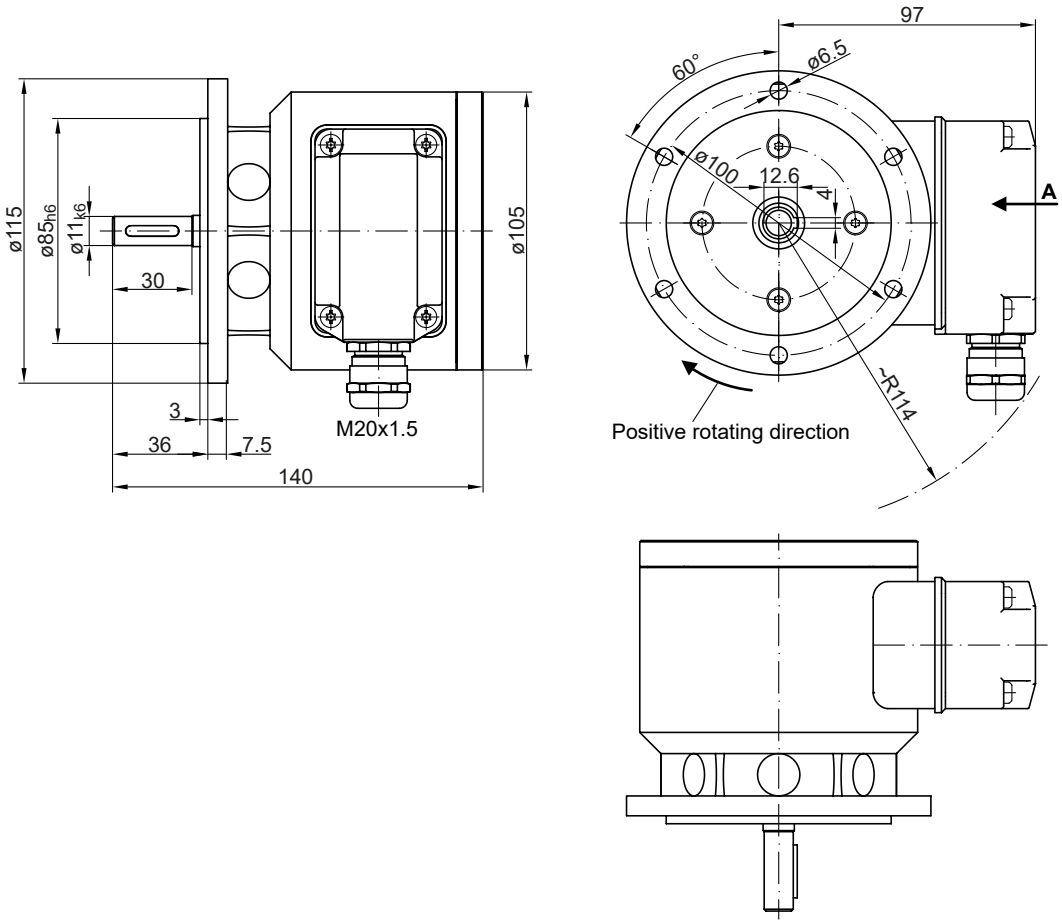
Dimensions



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Accessories	
Mounting accessories	
	Spring disk coupling K35 (shaft ø6...12 mm)
	Spring disk coupling K 50 (shaft ø11...16 mm)
11064874	Spring disk coupling K60 WD 11PF4 + 12PF4

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