Incremental encoder

# OG9 DN 1024 I

Solid shaft with EURO flange B10, 1024 pulses per revolution

Article number: 11071385

## Overview

- Encoder with Solid shaft ø11 mm
- Optical sensing method
- EURO flange B10
- Output stage HTL with power linedriver
- Operating temperature up to +100 °C



## 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<br>≤300 kHz (on request) |
| 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<br>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<br>≤350 N radial |
| Flange | EURO flange B10 |
| Protection EN 60529 | IP 55 |
| Operating speed | ≤12000 rpm (mechanical) |
| Operating torque typ. | 1 Ncm |
| Rotor moment of inertia | 280 gcm² |
| Material | Housing: aluminium die-cast<br>Shaft: stainless steel |
| Operating temperature | -30...+100 °C |
| Resistance | IEC 60068-2-6<br>Vibration 10 g, 10-2000 Hz<br>IEC 60068-2-27<br>Shock 100 g, 6 ms |
| Corrosion protection | IEC 60068-2-52 Salt mist<br>for ambient conditions C4 according to ISO 12944-2 |
| Connection | Terminal box |
| Weight approx. | 980 g |

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

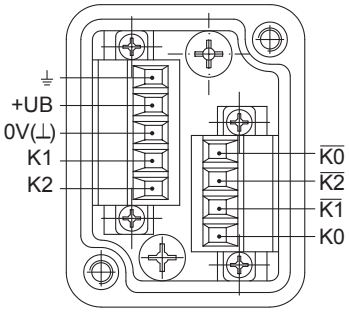
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## Terminal assignment

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

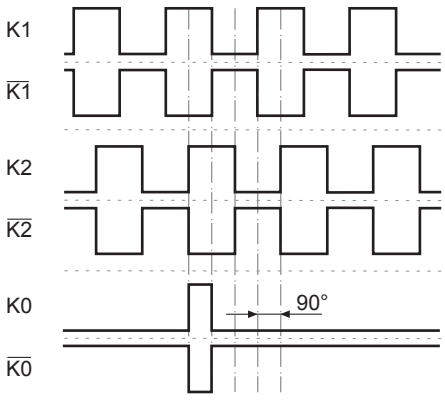



## Terminal significance

| | |
|---|---|
| +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 |

## Output signals

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



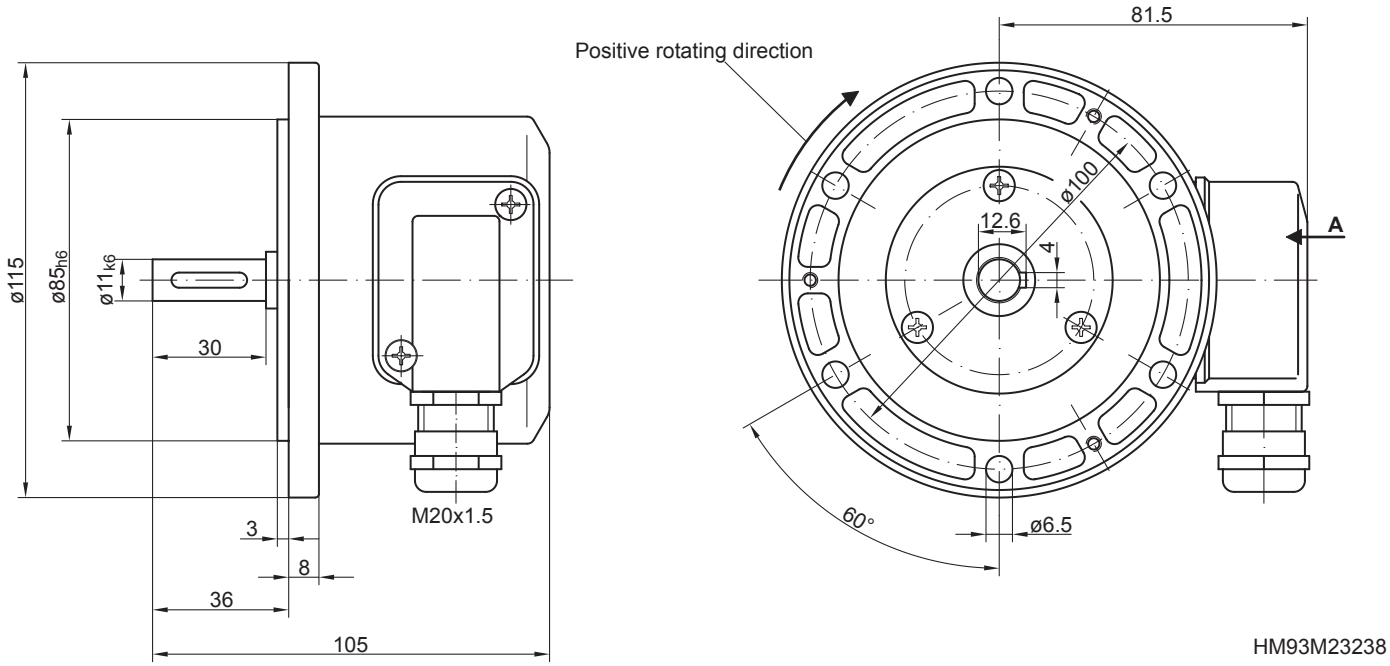

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## Dimensions




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