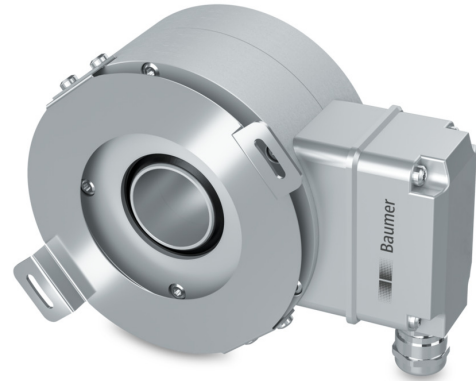


HOG 131

Through hollow shaft $\varnothing 16...36$ mm
1024...3072 pulses per revolution

Overview

- Through hollow shaft $\varnothing 16...36$ mm
- Optical sensing method
- Shaft especially sealed for offshore applications
- Housing with special surface protection
- Hybrid bearing for extended service life
- Integrated lightning protection gap between encoder shaft and housing
- Output stage HTL or TTL
- Output stage TTL with regulator UB 9...30 VDC
- Large terminal box, turn by 180°



HUBNER
BERLIN
A Baumer Brand

Technical data

Technical data - electrical ratings

Voltage supply	9...30 VDC 5 VDC $\pm 5\%$ 9...26 VDC
Consumption w/o load	≤ 100 mA
Pulses per revolution	1024 ... 3072
Phase shift	$90^\circ \pm 20^\circ$
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 TTL/RS422
Interference immunity	EN 61000-6-2
Emitted interference	EN 61000-6-3
Approval	CE UL approval / E217823

Technical data - mechanical design

Size (flange)	$\varnothing 130$ mm
Shaft type	$\varnothing 16...36$ mm (through hollow shaft)

Technical data - mechanical design

Admitted shaft load	≤ 300 N axial ≤ 500 N radial
Protection EN 60529	IP 56
Operating speed	≤ 6000 rpm (mechanical)
Operating torque typ.	15 Ncm
Rotor moment of inertia	4.9 kgcm ² ($\varnothing 32$)
Material	Housing: aluminium alloy Shaft: stainless steel
Operating temperature	$-40...+100^\circ\text{C}$
Resistance	IEC 60068-2-6 Vibration 10 g, 10-2000 Hz IEC 60068-2-27 Shock 200 g, 6 ms
Corrosion protection	IEC 60068-2-52 Salt mist for ambient conditions CX (C5-M) according to ISO 12944-2
Explosion protection	II 3 G Ex ec IIC T4 Gc (gas) II 3 D Ex tc IIIB T135°C Dc (dust) (only with option ATEX)
Connection	Terminal box
Weight approx.	4 kg

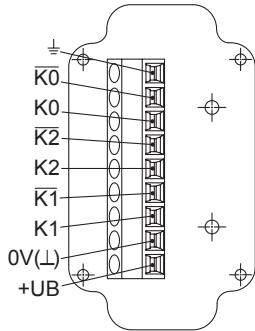
HOG 131

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1024...3072 pulses per revolution

Terminal assignment

View A (see dimension)

Connecting terminal terminal box, radial



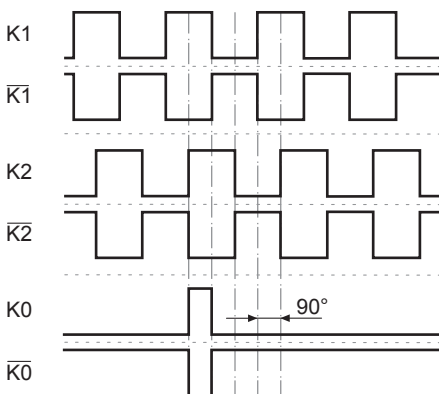
Terminal significance

+UB	Voltage supply
0V (L)	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

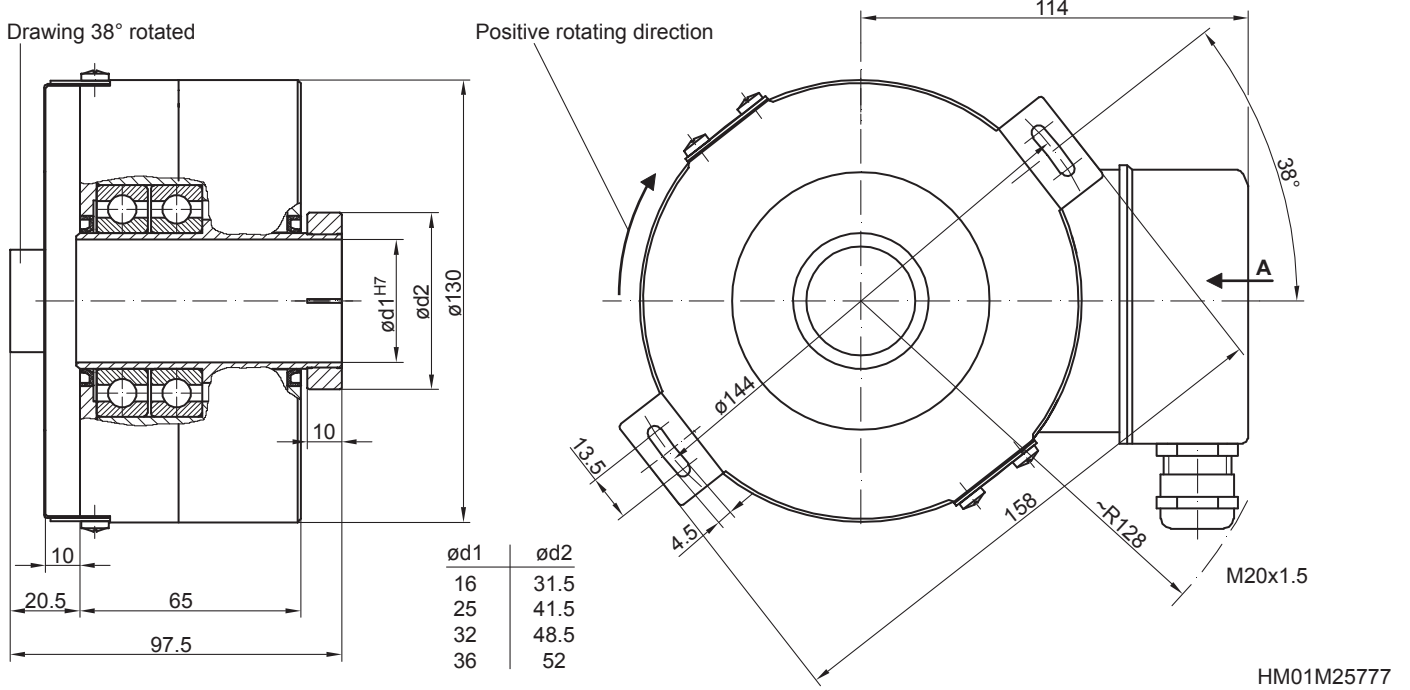
At positive rotating direction (see dimension)



HOG 131

Through hollow shaft $\varnothing 16 \dots 36$ mm
1024...3072 pulses per revolution

Dimensions



HOG 131

 Through hollow shaft $\varnothing 16 \dots 36$ mm

1024...3072 pulses per revolution

Ordering reference
HOG131 DN ### ## #####
Product

Incremental encoder

HOG131

Output signals

K1, K2, K0

DN

Pulse number⁽¹⁾

1024

1024

2048

2048

3072

3072

Voltage supply / output stage

9...30 VDC / output stage HTL with inverted signals

I

5 VDC / output stage TTL with inverted signals

TTL

9...30 VDC / output stage TTL with inverted signals

R

Shaft diameter

 Blind hollow shaft $\varnothing 16$ mm

16H7

 Through hollow shaft $\varnothing 25$ mm

25H7

 Blind hollow shaft $\varnothing 32$ mm

32H7

 Blind hollow shaft $\varnothing 36$ mm

36H7

(1) Other pulse numbers on request.