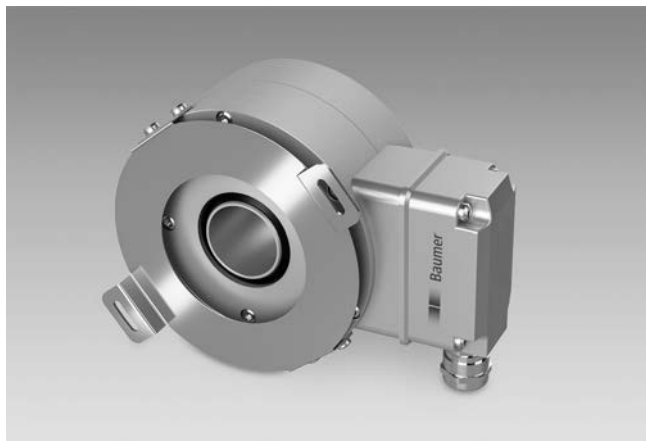


# Incremental encoders

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

1024...3072 pulses per revolution

## HOG 131



HOG 131

### Technical data - electrical ratings

Voltage supply	9...30 VDC 5 VDC $\pm 5$ % 9...26 VDC
Consumption w/o load	$\leq 100$ mA
Pulses per revolution	1024...3072
Phase shift	$90^\circ \pm 20^\circ$
Scan ratio	40...60 %
Reference signal	Zero pulse, width $90^\circ$
Sensing method	Optical
Output frequency	$\leq 120$ kHz
Output signals	K1, K2, K0 + inverted
Output stages	HTL TTL/RS422
Interference immunity	EN 61000-6-2
Emitted interference	EN 61000-6-3
Approvals	CE, UL approval / E256710

### Features

- Through hollow shaft  $\varnothing 16$ ... $\varnothing 36$  mm
- Optical sensing method
- Shaft especially sealed for offshore applications
- Housing with special surface protection
- Hybrid bearing for extended lifetime
- 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  $180^\circ$

### Technical data - mechanical design

Size (flange)	$\varnothing 130$ mm
Shaft type	$\varnothing 16$ ... $\varnothing 36$ mm (through hollow shaft)
Admitted shaft load	$\leq 300$ N axial $\leq 500$ N radial
Protection DIN EN 60529	IP 56
Operating speed	$\leq 6000$ rpm (mechanical)
Operating torque typ.	15 Ncm
Rotor moment of inertia	4.9 kgcm <sup>2</sup> ( $\varnothing 32$ )
Materials	Housing: aluminium alloy Shaft: stainless steel
Operating temperature	$-40$ ... $+100$ °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 Complies to ISO 12944-5:1998 Protective paint systems (C5-M)
Explosion protection	II 3 G Ex nA IIC T4 Gc (gas) II 3 D Ex tc IIIB T135°C Dc (dust)
Connection	Terminal box
Weight approx.	4 kg

# Incremental encoders

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

HOG 131

## Part number

### Incremental encoder

HOG131 **DN** | | | | |

Shaft diameter  
16H7 Through hollow shaft  $\varnothing$ 16 mm  
25H7 Through hollow shaft  $\varnothing$ 25 mm  
32H7 Through hollow shaft  $\varnothing$ 32 mm  
36H7 Through hollow shaft  $\varnothing$ 36 mm

Voltage supply / signals  
I 9...30 VDC / output stage HTL with inverted signals  
TTL 5 VDC / output stage TTL with inverted signals  
R 9...26 VDC / output stage TTL with inverted signals

Pulse number - see table

Output signals  
DN K1, K2, K0

## Pulse number

1024 | 2048 | 3072

Other pulse numbers on request.

## Accessories

### Connectors and cables

HEK 8 Sensor cable for encoders

### Diagnostic accessories

HENQ 1100 Analyzer for encoders

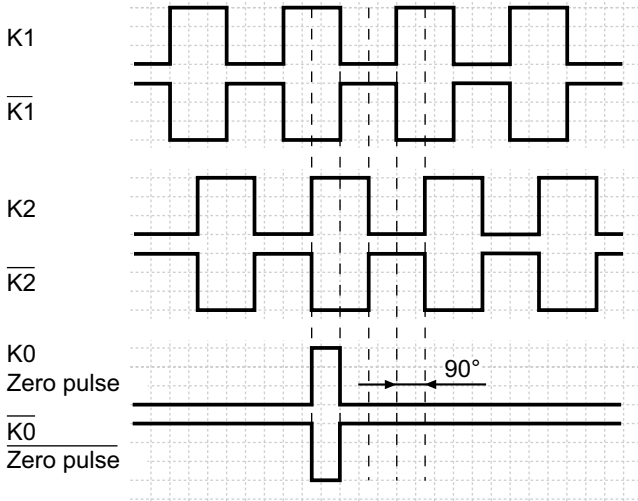
# Incremental encoders

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

## HOG 131

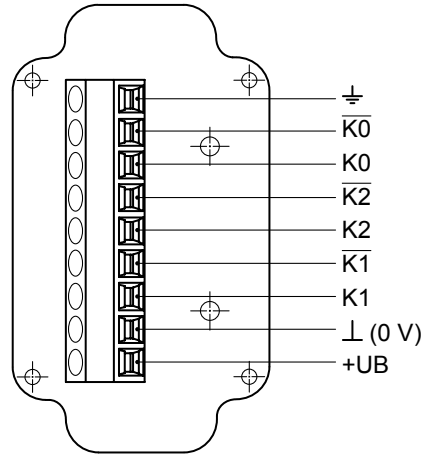
### Output signals

At positive rotating direction



### Terminal assignment

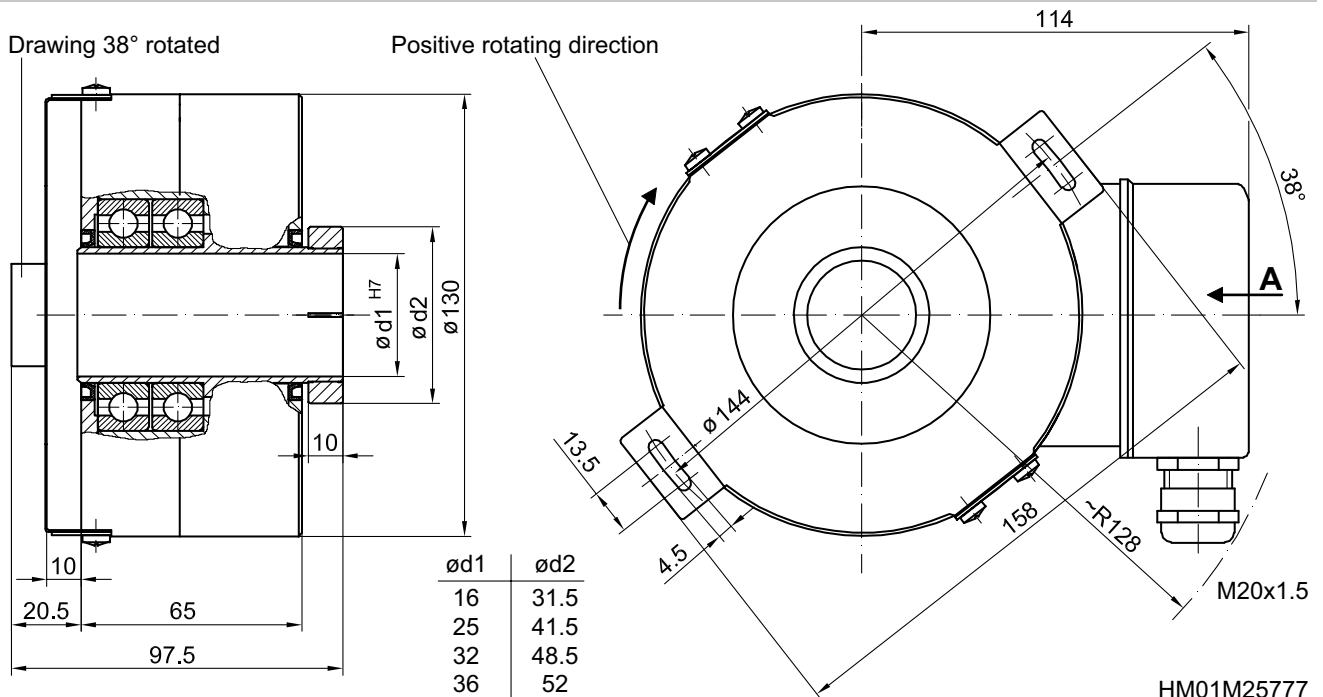
View A - Connecting terminal in terminal box



### Dimensions

Drawing 38° rotated

Positive rotating direction



# Incremental encoders

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

HOG 131

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