

HOG 71

Blind hollow shaft $\varnothing 12$ mm and $\varnothing 14$ mm
64...2048 pulses per revolution

Overview

- Blind hollow shaft $\varnothing 12$...14 mm
- Optical sensing method
- Compact, robust die-cast housing
- Inside connecting terminals
- Output stage HTL or TTL
- Output stage TTL with regulator UB 9...26 VDC
- High resistance to shock and vibrations
- High protection IP 66



HUBNER
BERLIN
A Baumer Brand

Technical data

Technical data - electrical ratings

Voltage supply	9...26 VDC 5 VDC ± 5 %
Consumption w/o load	≤ 100 mA
Pulses per revolution	64 ... 2048
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	A, B, C + 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)	$\varnothing 60$ mm
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Technical data - mechanical design

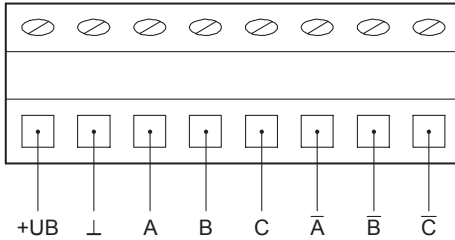
Shaft type	$\varnothing 12$...14 mm (blind hollow shaft)
Admitted shaft load	≤ 30 N axial ≤ 40 N radial
Protection EN 60529	IP 66
Operating speed	≤ 10000 rpm (mechanical)
Operating torque typ.	1 Ncm
Rotor moment of inertia	55 gcm ²
Material	Housing: aluminium die-cast Shaft: stainless steel
Operating temperature	-20...+85 °C
Resistance	IEC 60068-2-6 Vibration 10 g, 10-2000 Hz IEC 60068-2-27 Shock 100 g, 6 ms
Explosion protection	II 3 G Ex ec IIC T4 Gc X (gas) II 3 D Ex tc IIIC T85°C Dc X (dust) (only with option ATEX)
Connection	Connecting terminal
Weight approx.	280 g

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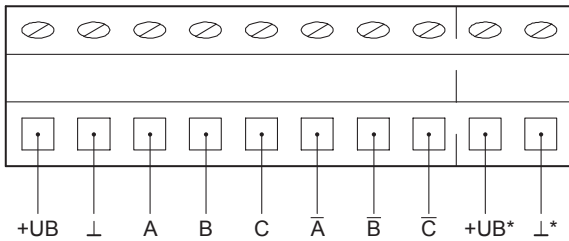
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Terminal assignment

View A (see dimension)
Connecting terminal HTL



View A (see dimension)
Connecting terminal TTL



* Sensor

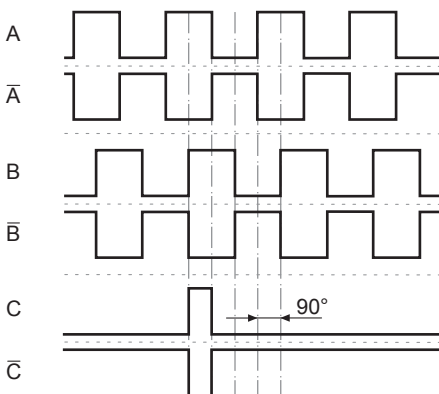
Terminal significance

+UB	Voltage supply
⊥	Ground
A	Output signal channel 1
A̅	Output signal channel 1 inverted
B	Output signal channel 2 (offset by 90° to channel 1)
B̅	Output signal channel 2 inverted
C	Zero pulse (reference signal)
C̅	Zero pulse inverted

Output signals

HTL/TTL

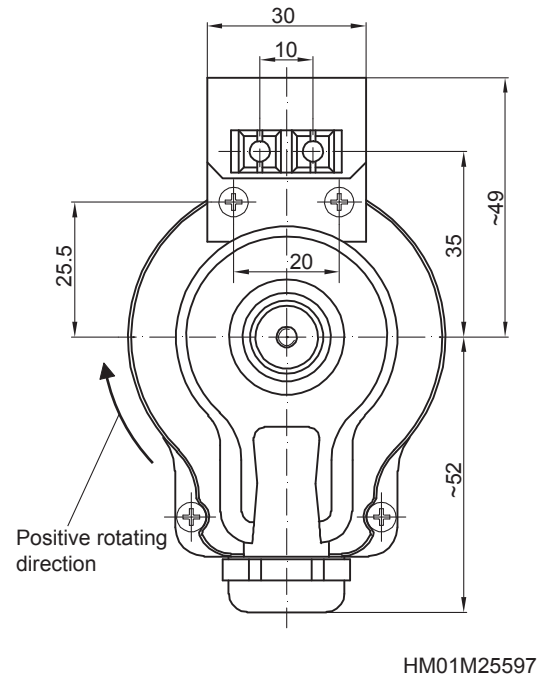
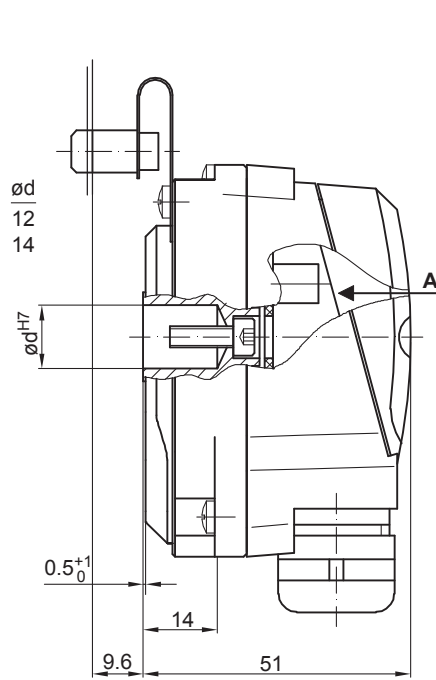
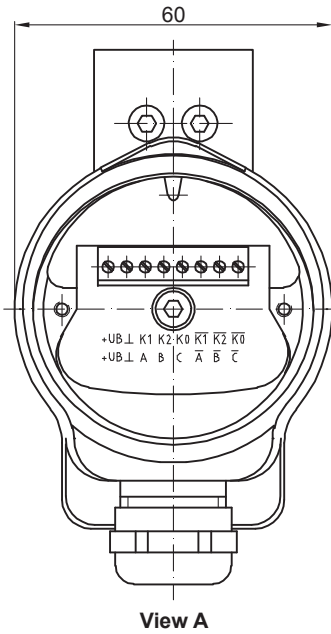
At positive rotating direction (see dimension)



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Dimensions



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Ordering reference

		HOG71	DN	####	###	#####
Product						
Incremental encoder		HOG71				
Output signals						
A, B, C		DN				
Pulse number⁽¹⁾						
64		64				
100		100				
180		180				
192		192				
200		200				
256		256				
360		360				
400		400				
500		500				
512		512				
720		720				
1000		1000				
1024		1024				
2048		2048				
Voltage supply / output stage						
9...26 VDC / output stage HTL (C) with inverted signals		CI				
5 VDC / output stage TTL with inverted signals		TTL				
9...26 VDC / output stage TTL with inverted signals		R				
Shaft diameter						
Blind hollow shaft \varnothing 12 mm		12H7				
Through hollow shaft \varnothing 14 mm		14H7				

(1) Other pulse numbers on request.

Accessories

Diagnostic accessories

11075858	Analyzer for encoders HENQ 1100
11075880	Analyzer for encoders HENQ 1100 B