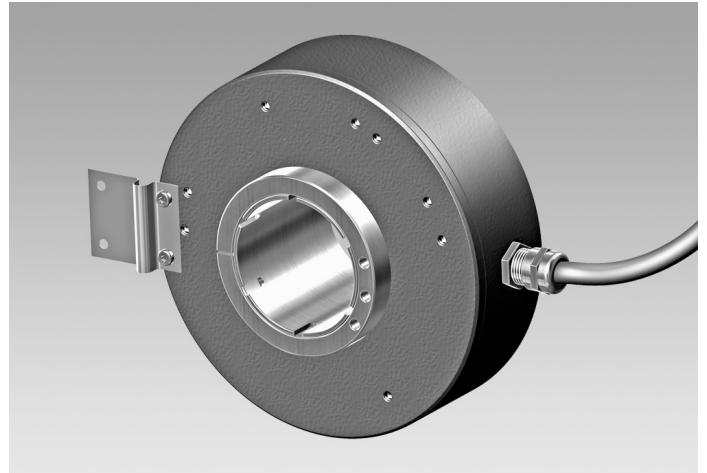


HOG 12

Through hollow shaft $\varnothing 30 \dots 45$ mm
600...1200 pulses per revolution

Overview

- Through hollow shaft $\varnothing 30 \dots 45$ mm
- Optical sensing method
- Robust light-metal housing
- Output stage HTL or TTL
- Output stage TTL with regulator UB 9...26 VDC



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Technical data

Technical data - electrical ratings

Voltage supply	9...26 VDC 5 VDC ± 5 %
Consumption w/o load	≤ 100 mA
Pulses per revolution	600 ... 1200
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)	$\varnothing 125$ mm
Shaft type	$\varnothing 30 \dots 45$ mm (through hollow shaft)
Admitted shaft load	≤ 30 N axial ≤ 40 N radial
Protection EN 60529	IP 54
Operating speed	≤ 6000 rpm (mechanical)
Operating torque typ.	10 Ncm
Rotor moment of inertia	1.3 kgcm ²
Material	Housing: aluminium alloy Shaft: stainless steel
Operating temperature	$-30 \dots +85^\circ\text{C}$
Resistance	IEC 60068-2-6 Vibration 10 g, 10-2000 Hz IEC 60068-2-27 Shock 100 g, 6 ms
Connection	Cable 1 m
Weight approx.	1 kg

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Terminal assignment

Assignment connecting cable

Wire colour	Assignment
Red	+UB
Blue	0V ($\perp$)
White	K1
Brown	$\overline{K1}$
Green	K2
Yellow	$\overline{K2}$
Grey	K0
Pink	$\overline{K0}$

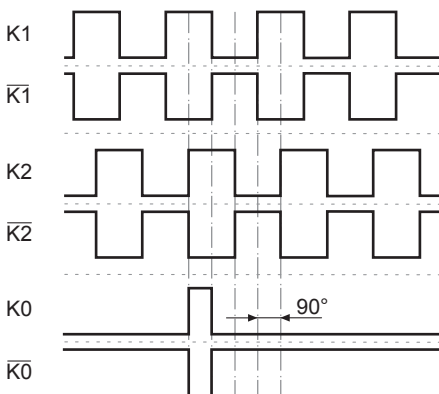
Terminal significance

+UB	Voltage supply
0V ($\perp$)	Ground
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*)

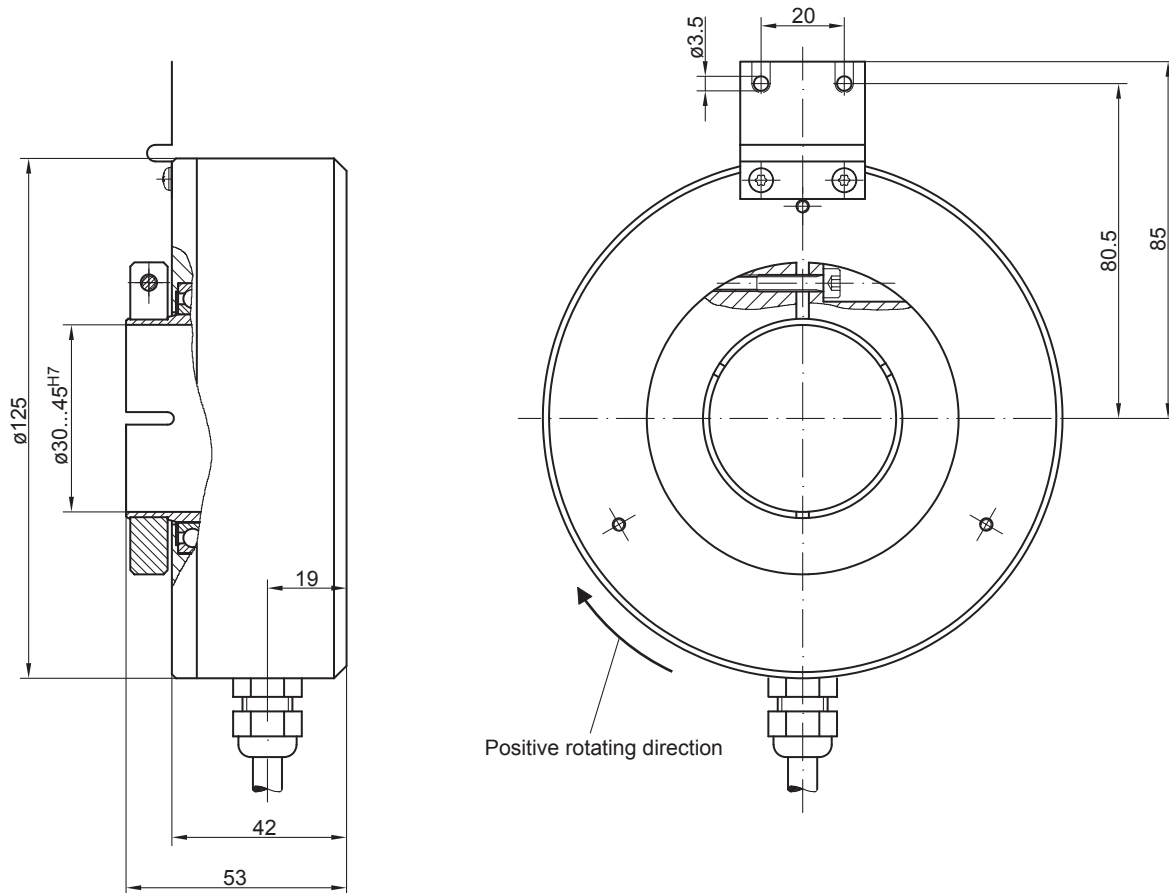


HOG 12

Through hollow shaft $\varnothing 30 \dots 45$ mm

600...1200 pulses per revolution

Dimensions



HOG 12

Through hollow shaft ø30...45 mm
 600...1200 pulses per revolution

Ordering reference

	HOG12	DN	####	###	#####
Product					
Incremental encoder	HOG12				
Output signals					
K1, K2, K0		DN			
Pulse number⁽¹⁾					
600			600		
1024			1024		
1200			1200		
Voltage supply / output stage					
9...26 VDC / output stage HTL (C) with inverted signals				CI	
5 VDC ±5 % / TTL				T	
9...26 VDC / output stage TTL with inverted signals				R	
Shaft diameter					
Through hollow shaft ø30 mm					30H7
Blind hollow shaft ø38 mm					38H7
Through hollow shaft ø40 mm					40H7
Through hollow shaft ø45 mm					45H7

(1) Other pulse numbers on request.