

Incremental encoders

Hollow shaft $\varnothing 20$ to $\varnothing 38$ mm

Resolution 250...2500 pulses

HOG 16



HOG 16

Technical data - electrical ratings

Voltage supply	5 VDC ± 5 % 9...26 VDC 9...30 VDC
Consumption w/o load	≤ 100 mA
Resolution (steps/turn)	250...2500
Phase shift	$90^\circ \pm 20^\circ$
Scan ratio	40...60 %
Reference signal	Zero pulse, width 90°
Sensing method	Optical
Output frequency	≤ 120 kHz
Output signals	K1, K2, K0 + inverted
Output circuit	TTL (RS422) HTL (power linedriver)
Interference immunity	DIN EN 61000-6-2
Emitted interference	DIN EN 61000-6-4
Approval	UL approval / E256710

Features

- Encoder with hollow shaft $\varnothing 20$ -38 mm
- Optical sensing
- Robust light-metal housing
- Logic level TTL with regulator UB 9...26 VDC
- Logic level HTL with power linedriver
- Special protection against corrosion
- Big terminal box, turn by 180°

Optional

- Redundant version
- With earthing brushes
- Hybrid bearings

Technical data - mechanical design

Dimensions (flange)	$\varnothing 158$ mm
Shaft	$\varnothing 20$...38 mm hollow shaft
Shaft loading	≤ 400 N axial, ≤ 600 N radial
Protection DIN EN 60529	IP 66
Operating speed	≤ 6000 rpm (mechanical)
Operating torque typ.	15 Ncm
Rotor moment of inertia	4.9 kgcm ² ($\varnothing 25$)
Materials	Housing: aluminium alloy Shaft: stainless steel
Operating temperature	-20 ... $+100$ °C
Resistance	IEC 60068-2-6 Vibration 15 g, 10-2000 Hz IEC 60068-2-27 Shock 300 g, 6 ms
Weight approx.	4 kg

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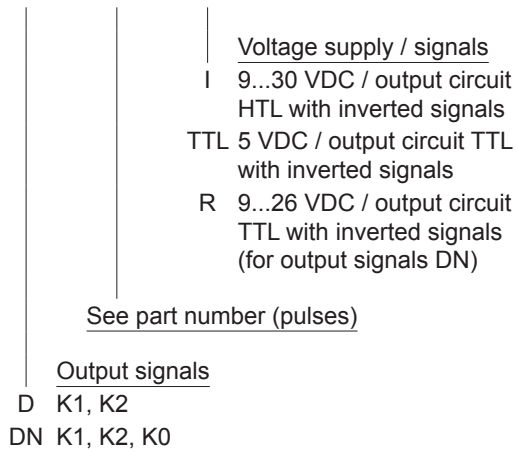
Resolution 250...2500 pulses

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Part number

HOG 16

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Accessories

Connectors and cables

HEK 8 Sensor cable for encoders

Mounting accessories

DMS 6 Torque arm size M6

Diagnostic accessories

HENQ 1100 Analyzer for encoders

Part number (pulses)

250	512	1000	1080	2048
500	600	1024	1200	2500

Other pulse numbers upon request.

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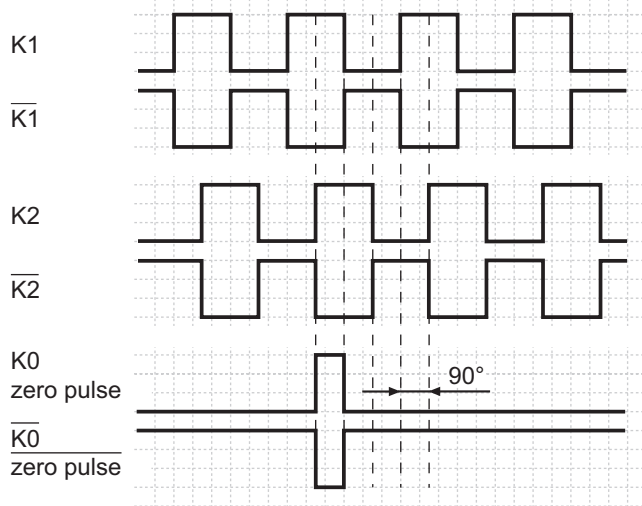
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Output signals

at positive rotating direction



Terminal assignment

View A - Connecting terminal in terminal box

