

Incremental encoders

Hollow shaft $\varnothing 80$ to $\varnothing 115$ mm

Resolution 1024 pulses

HOG 220



HOG 220

Technical data - electrical ratings

Voltage supply	5 VDC ± 5 % 9...26 VDC 9...30 VDC
Consumption w/o load	≤ 100 mA
Resolution (steps/turn)	1024
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 $\varnothing 80$ -115 mm
- Optical sensing
- Robust light-metal housing
- Logic level TTL with regulator UB 9...26 VDC
- Logic level HTL with power linedriver
- Big terminal box, turn by 180°

Optional

- Induced interference immunity

Technical data - mechanical design

Dimensions (flange)	$\varnothing 227$ mm
Shaft	$\varnothing 80$...115 mm hollow shaft
Shaft loading	≤ 450 N axial ≤ 700 N radial
Protection DIN EN 60529	IP 56
Operating speed	≤ 3800 rpm (mechanical)
Operating torque typ.	50 Ncm
Rotor moment of inertia	102 kgcm ² ($\varnothing 100$)
Materials	Housing: aluminium alloy Shaft: stainless steel
Operating temperature	-30 ... $+85$ °C
Resistance	IEC 60068-2-6 Vibration 10 g, 10-2000 Hz IEC 60068-2-27 Shock 200 g, 6 ms
Explosion protection	II3G Ex nA IIC T4 Gc (gas) II3D Ex tc IIIB T135°C Dc (dust)
Connection	Terminal box
Weight approx.	8.8 kg ($\varnothing 100$)

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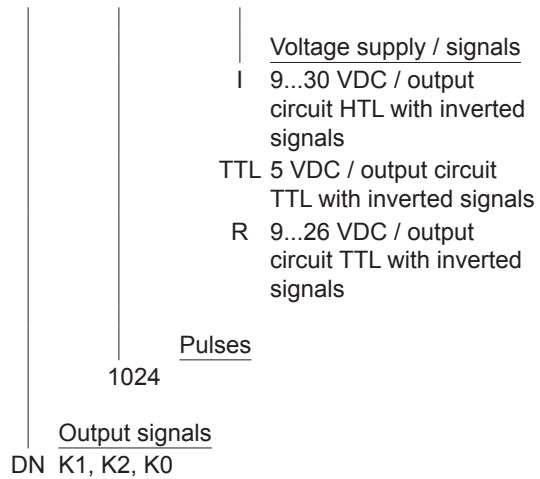
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Part number

HOG 220 **DN** **1024**



Other pulse numbers upon request.

Accessories

Connectors and cables

HEK 8 Sensor cable for encoders

Mounting accessories

DMS 12 Torque arm size M12

Diagnostic accessories

HENQ 1100 Analyzer for encoders

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