

Incremental encoders

Hollow shaft $\varnothing 12-26$ mm or cone shaft $\varnothing 17$ mm (1:10)

Resolution 250...2500 pulses

HOG 75



HOG 75

Technical data - electrical ratings

Voltage supply	5 VDC $\pm 5\%$ 9...26 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

- Hollow shaft $\varnothing 12-26$ mm or cone shaft $\varnothing 17$ mm (1:10)
- Optical sensing
- Compact, robust die-cast housing
- Inside connecting terminals
- Logic level TTL with regulator UB 5 VDC / 9...26 VDC
- Logic level HTL with power linedriver
- Especially high resistance to shock and vibrations
- Protection against inductive shaft current by hybrid bearings (HOG 75 KC)

Technical data - mechanical design

Dimensions (flange)	$\varnothing 75$ mm
Shaft loading	≤ 80 N axial ≤ 150 N radial
Protection DIN EN 60529	IP 56
Operating speed	≤ 10000 rpm (mechanical)
Starting torque	≤ 4 Ncm
Rotor moment of inertia	180 gcm ²
Materials	Housing: aluminium die-cast Shaft: stainless steel
Operating temperature	$-30...+85$ °C
Resistance	IEC 60068-2-6 Vibration 48 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 T85°C Dc (dust)
Connection	Connecting terminal
Weight approx.	320 g

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Shaft $\varnothing 12...26$ mm hollow shaft

HOG 75 K, HOG 75 KC

Shaft $\varnothing 17$ mm cone shaft 1:10

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Part number

HOG 75 **DN**

				<p>Voltage supply / signals</p> <p>CI 9...26 VDC / output circuit HTL (C) with inverted signals</p> <p>TTL 5 VDC / output circuit TTL with inverted signals</p> <p>R 9...26 VDC / output circuit TTL with inverted signals</p>
				See part number (pulses)
				Output signals
				DN K1, K2, K0
				Shaft type
				- Hollow shaft \varnothing 12-26 mm
				K Cone shaft \varnothing 17 mm (1:10)
				KC Cone shaft \varnothing 17 mm (1:10) with hybrid bearings

Accessories

Connectors and cables

HEK 8 Sensor cable for encoders

Mounting accessories for HOG 75 K, HOG 75 KC

DMS 6 Torque arm size M6

Diagnostic accessories

HENQ 1100 Analyzer for encoders

Part number (pulses)

250	500	1024	1250	2500
256	512	1200	2048	

Other pulse numbers upon request.

Incremental encoders

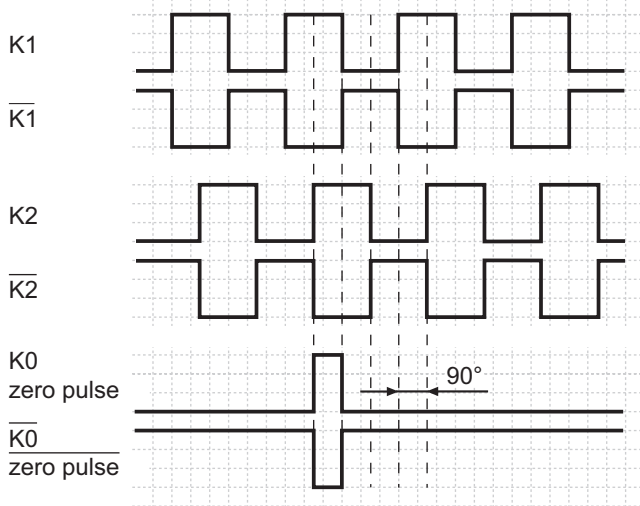
Hollow shaft $\varnothing 12-26$ mm or cone shaft $\varnothing 17$ mm (1:10)

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Output signals

at positive rotating direction



Terminal assignment

View A - Connecting terminal



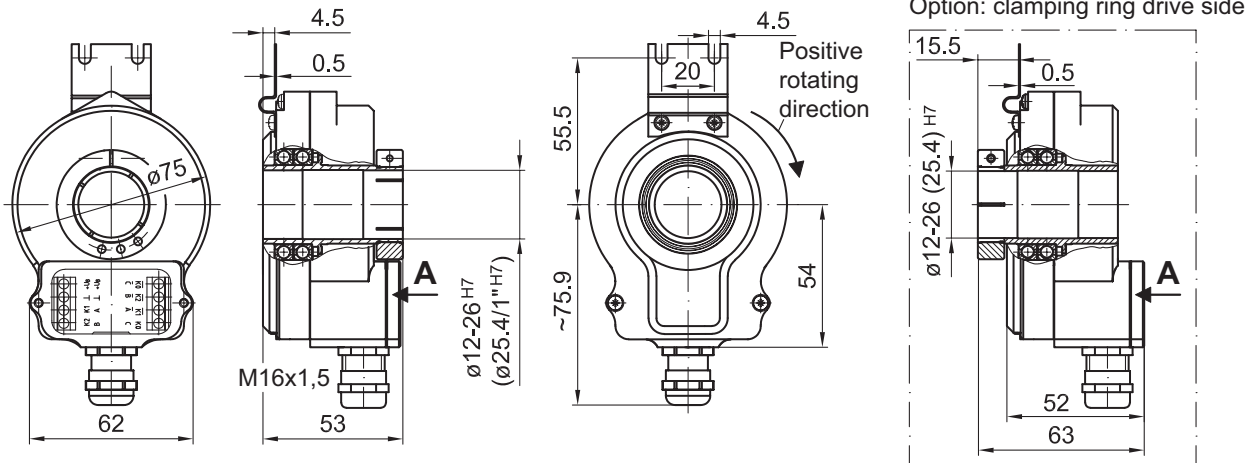
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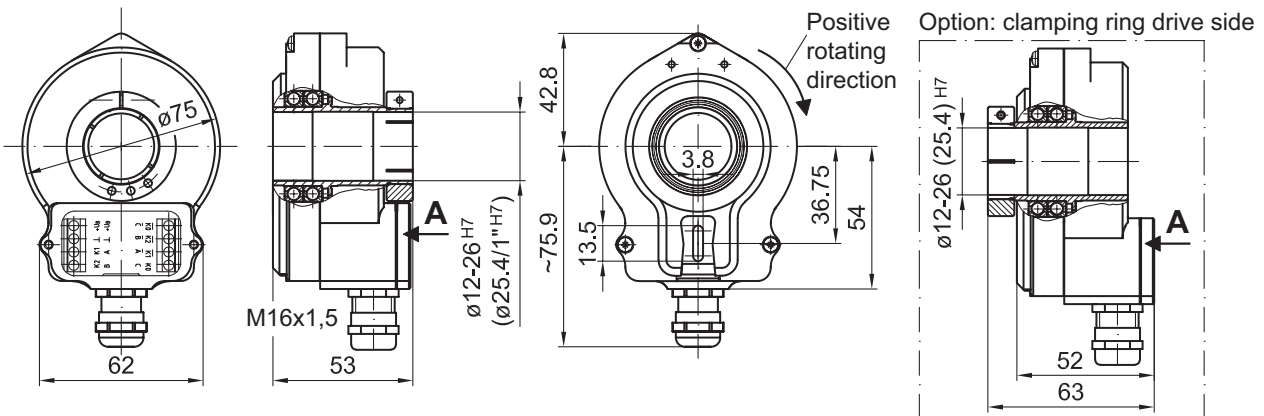
HOG 75

Dimensions

HOG 75 with torque support sheet



HOG 75 with slot for torque pin



HOG 75 K

