

Sine encoders

Hollow shaft $\varnothing 14$ -26 mm or cone shaft $\varnothing 17$ mm (1:10)

Resolution 1024...2048 pulses

HOGS 75



HOGS 75 K

Technical data - electrical ratings

Voltage supply	5 VDC ± 10 % 9...26 VDC
Consumption w/o load	≤ 90 mA
Resolution (steps/turn)	1024...2048
Reference signal	Zero pulse, width 90°
Sensing method	Optical
Output signals	A, B, C + inverted
Output circuit	Sine/cosine 1 Vpp
Interference immunity	DIN EN 61000-6-2
Emitted interference	DIN EN 61000-6-4
Approval	UL approval / E256710
Offset sine/cosine amplitude	≤ 20 mV
Harmonics share approx.	-50 dB
Spectrum	200 kHz (-3 dB)
Overlaying constant share	≤ 20 mV

Features

- Compact, robust die-cast housing
- Inside connecting terminals
- Sine output signals 1 Vpp
- Low harmonic content (patented LowHarmonics technology)
- Especially high resistance to vibrations
- Protection against inductive shaft current by hybrid bearings

Optional

- Cable output

Technical data - mechanical design

Dimensions (flange)	$\varnothing 75$ mm
Shaft	$\varnothing 14$...26 mm hollow shaft $\varnothing 17$ mm cone shaft 1:10
Shaft loading	≤ 80 N axial (hollow shaft) ≤ 170 N axial (cone shaft) ≤ 150 N radial (hollow shaft) ≤ 250 N radial (cone shaft)
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	-20...+70 °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 tD IP56 A22 T85°C X (dust)
Connection	Connecting terminal
Weight approx.	320 g

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Part number

HOGS 75

		DN			
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	Voltage supply	
	- 5 VDC	
	R 9...26 VDC	
	See part number (pulses)	
	Output signals	
	DN A, B, C + inverted	
	Shaft type	
	- Hollow shaft $\varnothing 14-26$ mm	
	K Cone shaft $\varnothing 17$ mm (1:10)	
	C Hollow shaft $\varnothing 14-26$ mm with hybrid bearings	
	KC Cone shaft $\varnothing 17$ mm (1:10) with hybrid bearings	

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)

1024 | 2048

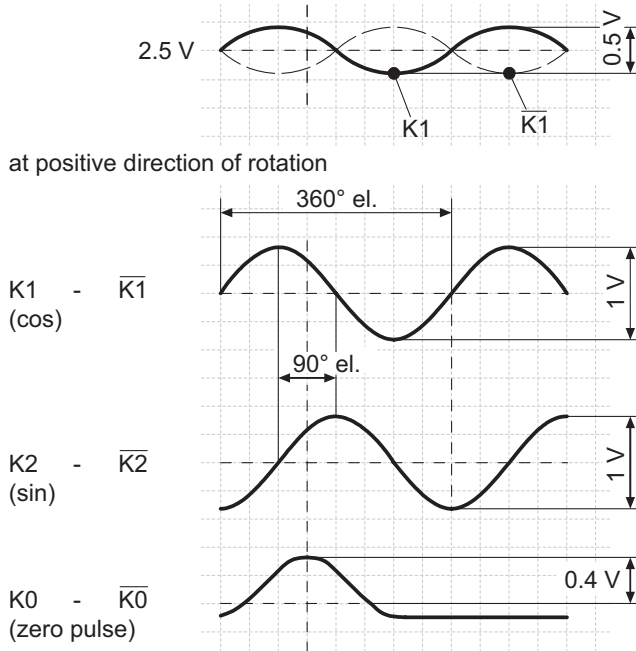
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Output signals



Terminal assignment

View A - Connecting terminal

