Through hollow shaft ø14...26 mm or cone shaft ø17 mm (1:10) 720...5000 sinewave cycles per turn

HOGS 75



HOGS 75 KC

Technical data - electrical ratings			
Voltage supply	5 VDC ±10 % 926 VDC		
Consumption w/o load	≤90 mA		
Sinewave cycles per turn	7205000		
Reference signal	Zero pulse, width 90°		
Sensing method	Optical		
Output signals	K1, K2, K0 + inverted		
Output stages	SinCos 1 Vpp		
Difference of SinCos amplitude	≤20 mV		
Harmonics typ.	-50 dB		
DC offset	≤20 mV		
Bandwidth	200 kHz (-3 dB)		
Interference immunity	EN 61000-6-2		
Emitted interference	EN 61000-6-3		
Approvals	CE, UL approval / E256710		

Features

- Compact, robust aluminium housing
- Inside connecting terminals
- SinCos output-signals 1 Vpp
- Low harmonic content (patented LowHarmonics technology)
- Especially high resistance to vibrations
- Hybrid bearing for extended lifetime

Optional

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- Cable output

Technical data - mechanical design				
Size (flange)	ø75 mm			
Protection DIN EN 60529	IP 56			
Starting torque	≤4 Ncm			
Rotor moment of inertia	180 gcm ²			
Materials	Housing: aluminium 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	II 3 G Ex nA IIC T4 Gc (gas) II 3 D Ex tc IIIC T135°C Dc (dust)			
Connection	Connecting terminal			
HOGS 75				
Shaft type	ø1426 mm (through hollow shaft)			
Admitted shaft load	≤80 N axial ≤150 N radial			
Operating speed	≤10000 rpm (mechanical)			
Weight approx.	580 g			
HOGS 75 K				
Shaft type	ø17 mm (cone shaft 1:10)			
Admitted shaft load	≤170 N axial ≤250 N radial			
Operating speed	≤12000 rpm (mechanical)			
Weight approx.	860 g			

Subject to modification in technic and design. Errors and omissions excepted.

Sine encoders

Through hollow shaft ø14...26 mm or cone shaft ø17 mm (1:10) 720...5000 sinewave cycles per turn

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Part number Sine encoder with through hollow shaft HOGS75 DN Mounting type Clamping ring in front (drive side) KLR A KLR B Clamping ring rear Shaft diameter Through hollow shaft ø12 mm 12H7 14H7 Through hollow shaft ø14 mm Through hollow shaft ø16 mm 16H7 18H7 Through hollow shaft ø18 mm 19H7 Through hollow shaft ø19 mm 20H7 Through hollow shaft ø20 mm 22H7 Through hollow shaft ø22 mm 24H7 Through hollow shaft ø24 mm 25H7 Through hollow shaft ø25 mm 26H7 Through hollow shaft ø26 mm Voltage supply 5 VDC R 9...26 VDC Sinewave cycles - see table Output signals DN K1, K2, K0 + inverted Shaft type Standard ball bearings

With hybrid bearings (only with shaft diameter 16 mm and clamping ring in front)

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Sinewave cycles					
720	1024	2048	5000		



Through hollow shaft ø14...26 mm or cone shaft ø17 mm (1:10) 720...5000 sinewave cycles per turn

HOGS 75

720

1024

2048

5000

Part number Sine encoder with cone shaft HOGS75K C DN 17K Shaft diameter 17K Cone shaft ø17 mm (1:10) Voltage supply 5 VDC R 9...26 VDC Sinewave cycles - see table Output signals DN K1, K2, K0 + inverted Shaft type C With hybrid bearings Sinewave cycles

3

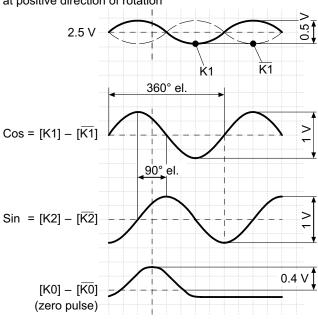


Through hollow shaft ø14...26 mm or cone shaft ø17 mm (1:10) 720...5000 sinewave cycles per turn

HOGS 75

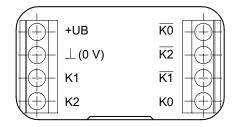
Output signals

at positive direction of rotation



Terminal assignment

View A - Connecting terminal



Accessories

Connectors and cables

HEK 8 Sensor cable for encoders

Mounting accessories

DMS 6 Torque arm size M6

Diagnostic accessories

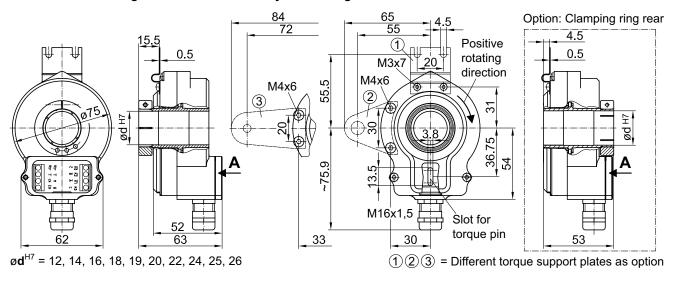
HENQ 1100 Analyzer for encoders

Through hollow shaft ø14...26 mm or cone shaft ø17 mm (1:10) 720...5000 sinewave cycles per turn

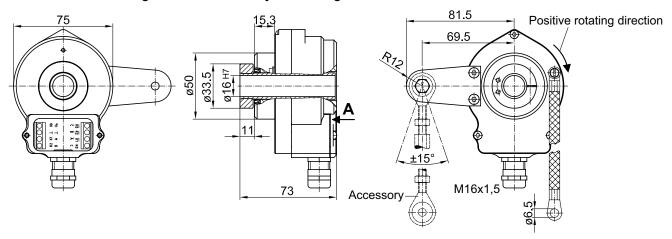
HOGS 75

Dimensions

HOGS 75 - With through hollow shaft without hybrid bearings



HOGS 75 C - With through hollow shaft and hybrid bearings



HOGS 75 KC - With cone shaft and hybrid bearings

