HOGS 75

Through hollow shaft ø14...26 mm 720...5000 sinewave cycles per turn

Overview

- Compact, robust aluminium housing
- Inside connecting terminalsSinCos output-signals 1 Vpp
- Low harmonic content (patented LowHarmonics technology)
- Especially high resistance to vibrations
- Hybrid bearing for extended service life (HOGS 75 C)







Technical data		
Technical data - electrical ratings		
Voltage supply	5 VDC ±10 % 926 VDC	
Consumption w/o load	≤90 mA	
Sinewave cycles per revolution	720 5000	
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	
Approval	CE UL approval / E217823	

Technical data - mechanical design		
Size (flange)	ø75 mm	
Shaft type	ø1426 mm (through hollow shaft)	
Admitted shaft load	≤80 N axial ≤150 N radial	
Protection EN 60529	IP 56	
Operating speed	≤10000 rpm (mechanical)	
Starting torque	≤4 Ncm	
Rotor moment of inertia	180 gcm²	
Material	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 ec IIC T4 Gc (gas) II 3 D Ex tc IIIC T135°C Dc (dust) (only with option ATEX)	
Connection	Connecting terminal	
Weight approx.	580 g	

Optional

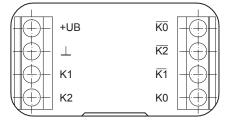
Cable output

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Terminal assignment

View A (see dimension) Connecting terminal

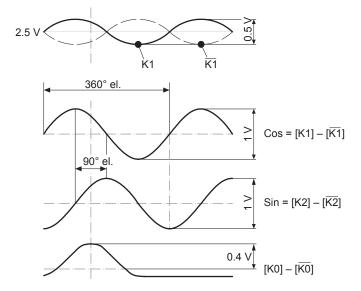


Terminal significance		
+UB	Voltage supply	
0V (⊥)	Ground	
K1	Output signal channel 1	
K1	Output signal channel 1 inverted	
K2	Output signal channel 2 (offset by 90° to channel 1)	
K2	Output signal channel 2 inverted	
K0	Zero pulse (reference signal)	
K0	Zero pulse inverted	

Output signals

SinCos

At positive rotating direction (see dimension)

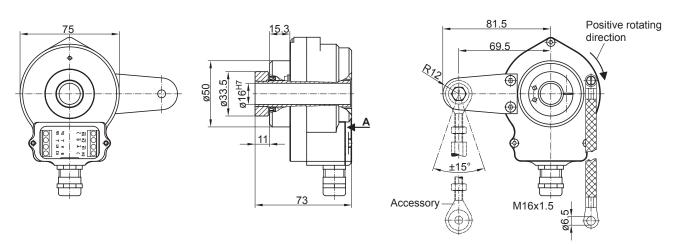


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Dimensions 65 Option: Clamping ring rear 84 55 4.5 1 0.5 Positive rotating direction M4x6 Slot for M16x1. torque pin 33 30 $\emptyset d^{H7} = 12, 14, 16, 18, 19, 20, 22, 24, 25, 26$ (1)(2)(3) = Different torque support plates as option

HOGS 75 - With through hollow shaft without hybrid bearings



HOGS 75 C - With through hollow shaft and hybrid bearings

Sine encoders

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Ordering reference		
	HOGS75 # DN #### # ##	#### #####
Product		
Sine encoder	HOGS75	
Shaft type		
Standard ball bearings		
With hybrid bearings	С	
Output signals		
K1, K2, K0	DN	
Sinewave cycles		
720	720	
1024	1024	
2048	2048	
5000	5000	
Voltage supply		
5 VDC	-	
926 VDC	R	
Shaft diameter		
Through hollow shaft ø12 mm		2H7
Through hollow shaft ø14 mm	1	4H7
Through hollow shaft ø16 mm	1	6H7
Through hollow shaft ø18 mm	1	8H7
Through hollow shaft ø19 mm	1	9H7
Through hollow shaft ø20 mm	2	0H7
Through hollow shaft ø24 mm	2	4H7
Through hollow shaft ø22 mm	2	2H7
Through hollow shaft ø25 mm	2	5H7
Through hollow shaft ø26 mm	2	6H7
Mounting type		
Clamping ring in front (drive side)		KLR /
Clamping ring rear		KLR I

Accessories		
Mounting accessories		
11043628	Torque arm M6, length 6770 mm	
11004078	Torque arm M6, length 120130 mm (≥71 mm)	
11002915	Torque arm M6, length 425460 mm (≥131 mm)	
11054917	Torque arm M6 insulated, length 6770 mm	
11072795	Torque arm M6 insulated, length 120130 mm (≥71 mm)	
11082677	Torque arm M6 insulated, length 425460 mm (≥131 mm)	