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

Incremental encoders

Through hollow shaft ø12...26 mm 250...2500 pulses per revolution

HOG 75



HOG 75	

Features

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- Through hollow shaft ø12...26 mm
- Optical sensing method
- Compact, robust aluminium housing
- Inside connecting terminals
- Output stage HTL or TTL
- Output stage TTL with regulator UB 9...26 VDC
- Especially high resistance to vibrations

Technical data - mechanical design

- Hybrid bearing for extended service life (HOG 75 C)

Technical data - electrical ratings		
926 VDC 5 VDC ±5 %		
≤100 mA		
2502500		
90° ±20°		
4060 %		
Zero pulse, width 90°		
Optical		
≤120 kHz		
K1, K2, K0 + inverted		
HTL TTL/RS422		
EN 61000-6-2		
EN 61000-6-3		
CE, UL approval / E256710		

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Size (flange)	ø75 mm
Shaft type	ø1226 mm (through hollow shaft)
Admitted shaft load	≤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 gcm²
Materials	Housing: aluminium 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	II 3 G Ex nA IIC T4 Gc (gas) II 3 D Ex tc IIIC T135°C Dc (dust)
Connection	Connecting terminal
Weight approx.	580 g
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HOG 75

Part numb	er			
HOG75	DN			
HOG75	DN		12H7 14H7 16H7 18H7 19H7 20H7 22H7 24H7	Mounting type KLR A Clamping ring in front (drive side) KLR B Clamping ring rear Shaft diameter Through hollow shaft ø12 mm Through hollow shaft ø14 mm Through hollow shaft ø16 mm Through hollow shaft ø18 mm Through hollow shaft ø19 mm Through hollow shaft ø20 mm Through hollow shaft ø22 mm Through hollow shaft ø22 mm Through hollow shaft ø24 mm
			25H7 26H7	Through hollow shaft ø25 mm Through hollow shaft ø26 mm
		TTI R	Voltage su 926 VDC 5 VDC / o 926 VDC	supply / signals OC / output stage HTL (C) with inverted signals output stage TTL with inverted signals OC / output stage TTL with inverted signals
		Pulse number Output signals (1, K2, K0	er - see tabl	<u>le</u>
	Shaft type			

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

Pulse number				
250	500	720	1200	2048
256	512	1024	1250	2500

Other pulse numbers on request.

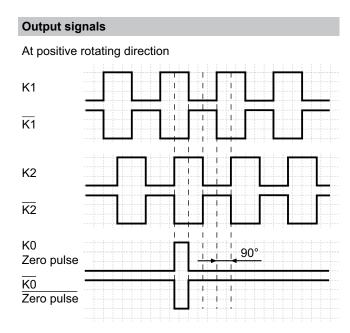
Accessories		
Connectors and cables		
HEK 8	Sensor cable for encoders	
Mounting accessories		
11043628	Torque arm M6, length 67-70 mm	
11004078	Torque arm M6, length 120-130 mm (shortenable ≥71 mm)	
11002915	Torque arm M6, length 425-460 mm (shortenable ≥131 mm)	
11054917	Torque arm M6 insulated, length 67-70 mm	
11072795	Torque arm M6 insulated, length 120-130 mm (shortenable ≥71 mm)	
11082677	Torque arm M6 insulated, length 425-460 mm (shortenable ≥131 mm)	
Diagnostic	accessories	
11075858	Analyzer for encoders HENQ 1100	



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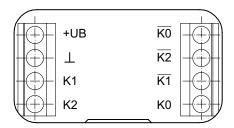
HOG 75



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Terminal	assionmeni
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View A - Connecting terminal



Terminal significance		
+UB	Voltage supply (for the device)	
⊥;	Ground (for the signals)	
≟; ///	Earth ground (housing)	
K1; A; A+	Output signal channel 1	
K1 ; A ; A-	Output signal channel 1 inverted	
K2; B; B+	Output signal channel 2 (offset by 90° to channel 1)	
<u>K2; B;</u> B−	Output signal channel 2 (offset by 90° to channel 1) inverted	
K0; C; R; R+	Zero pulse (reference signal)	
K0 ; C ; R ; R-	Zero pulse (reference signal) inverted	
dnu	Do not use	



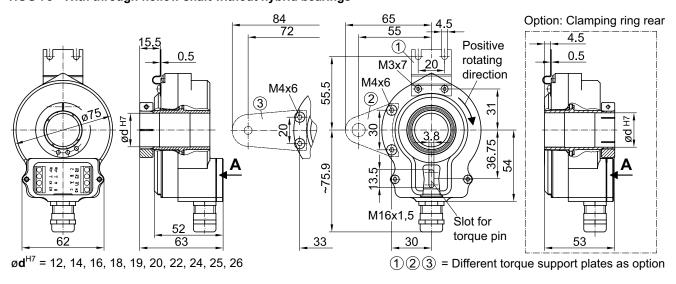
Incremental encoders

Through hollow shaft ø12...26 mm 250...2500 pulses per revolution

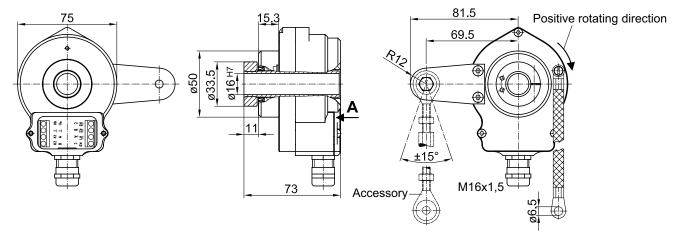
HOG 75

Dimensions

HOG 75 - With through hollow shaft without hybrid bearings



HOG 75 C - With through hollow shaft and hybrid bearings



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