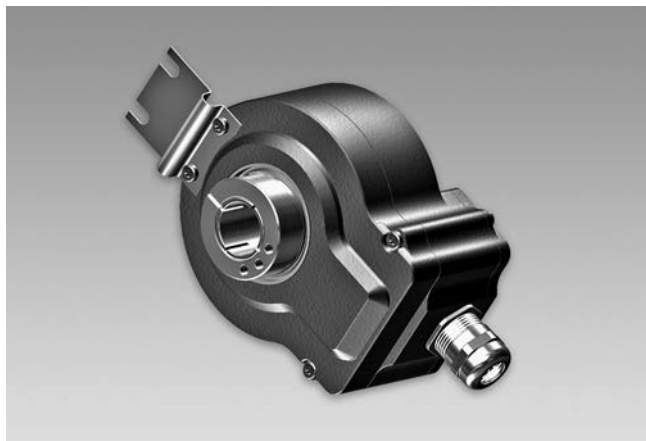


Incremental encoders

Through hollow shaft $\varnothing 12\text{-}26$ mm or cone shaft $\varnothing 17$ mm

250...2500 pulses per revolution

HOG 75



HOG 75

Technical data - electrical ratings

Voltage supply	9...26 VDC 5 VDC ± 5 %
Consumption w/o load	≤ 100 mA
Pulses per revolution	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 stages	HTL TTL/RS422
Interference immunity	EN 61000-6-2
Emitted interference	EN 61000-6-3
Approvals	CE, UL approval / E256710

Features

- Through hollow shaft $\varnothing 12\text{...}26$ mm or cone shaft $\varnothing 17$ mm (1:10)
- 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
- Hybrid bearing for extended lifetime (HOG 75 C, HOG 75 KC)

Technical data - mechanical design

Size (flange)	$\varnothing 75$ mm
Admitted shaft load	≤ 80 N axial ≤ 150 N radial
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	$-30\text{...}+85$ °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

HOG 75

Shaft type	$\varnothing 12\text{...}26$ mm (through hollow shaft)
Operating speed	≤ 10000 rpm (mechanical)
Weight approx.	580 g

HOG 75 K

Shaft type	$\varnothing 17$ mm (cone shaft 1:10)
Operating speed	≤ 12000 rpm (mechanical)
Weight approx.	860 g

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

Incremental encoders

Through hollow shaft \varnothing 12-26 mm or cone shaft \varnothing 17 mm

250...2500 pulses per revolution

HOG 75

Part number

Incremental encoder with through hollow shaft

HOG75

		DN							
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					<u>Mounting type</u>
					KLR A Clamping ring in front (drive side)
					KLR B Clamping ring rear
					<u>Shaft diameter</u>
					12H7 Through hollow shaft \varnothing 12 mm
					14H7 Through hollow shaft \varnothing 14 mm
					16H7 Through hollow shaft \varnothing 16 mm
					18H7 Through hollow shaft \varnothing 18 mm
					19H7 Through hollow shaft \varnothing 19 mm
					20H7 Through hollow shaft \varnothing 20 mm
					22H7 Through hollow shaft \varnothing 22 mm
					24H7 Through hollow shaft \varnothing 24 mm
					25H7 Through hollow shaft \varnothing 25 mm
					26H7 Through hollow shaft \varnothing 26 mm
					<u>Voltage supply / signals</u>
					CI 9...26 VDC / output stage HTL (C) with inverted signals
					TTL 5 VDC / output stage TTL with inverted signals
					R 9...26 VDC / output stage TTL with inverted signals
					<u>Pulse number - see table</u>
					<u>Output signals</u>
					DN K1, K2, K0
					<u>Shaft type</u>
					Standard ball bearings
					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.

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

Incremental encoders

Through hollow shaft $\varnothing 12-26$ mm or cone shaft $\varnothing 17$ mm

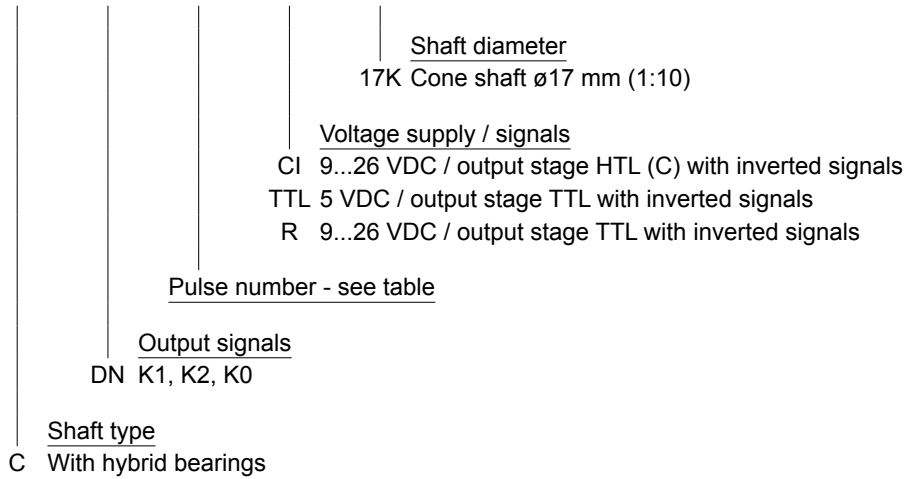
250...2500 pulses per revolution

HOG 75

Part number

Incremental encoder with cone shaft

HOG75K C DN 17K



Pulse number

250	500	720	1200	2048
256	512	1024	1250	2500

Other pulse numbers on request.

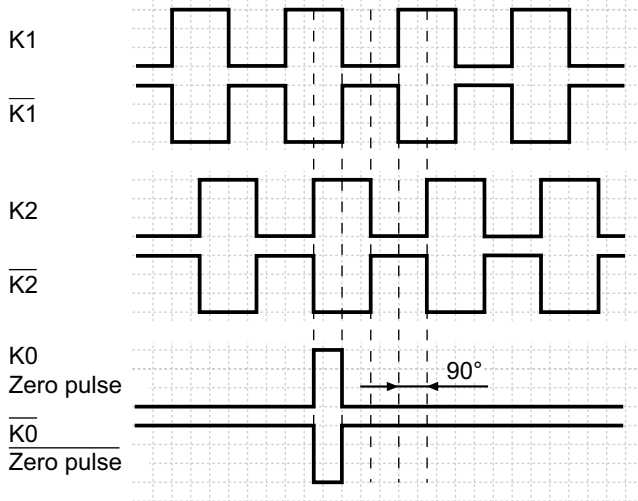
Incremental encoders

Through hollow shaft $\varnothing 12-26$ mm or cone shaft $\varnothing 17$ mm
250...2500 pulses per revolution

HOG 75

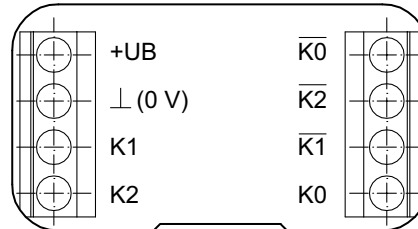
Output signals

At positive rotating direction



Terminal assignment

View A - Connecting terminal



Accessories

Connectors and cables

HEK 8 Sensor cable for encoders

Diagnostic accessories

HENQ 1100 Analyzer for encoders

Incremental encoders

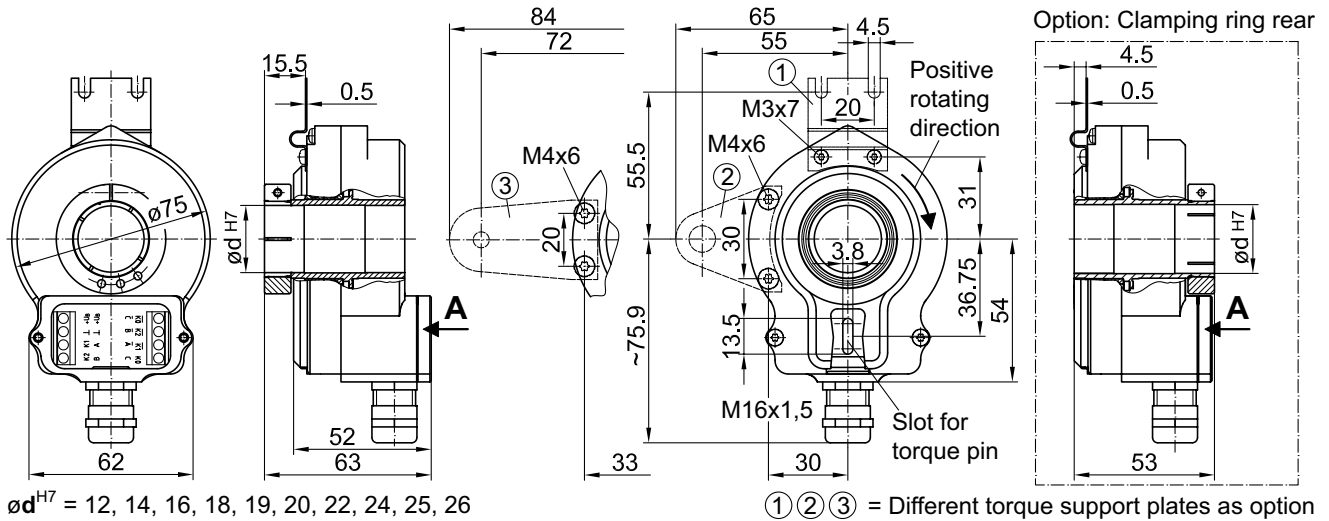
Through hollow shaft $\varnothing 12-26$ mm or cone shaft $\varnothing 17$ mm

250...2500 pulses per revolution

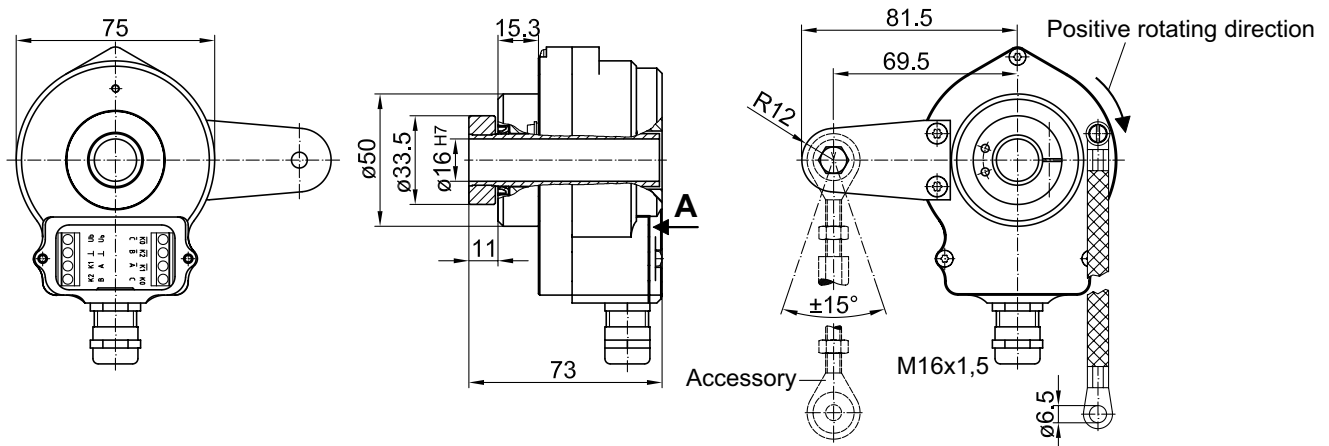
HOG 75

Dimensions

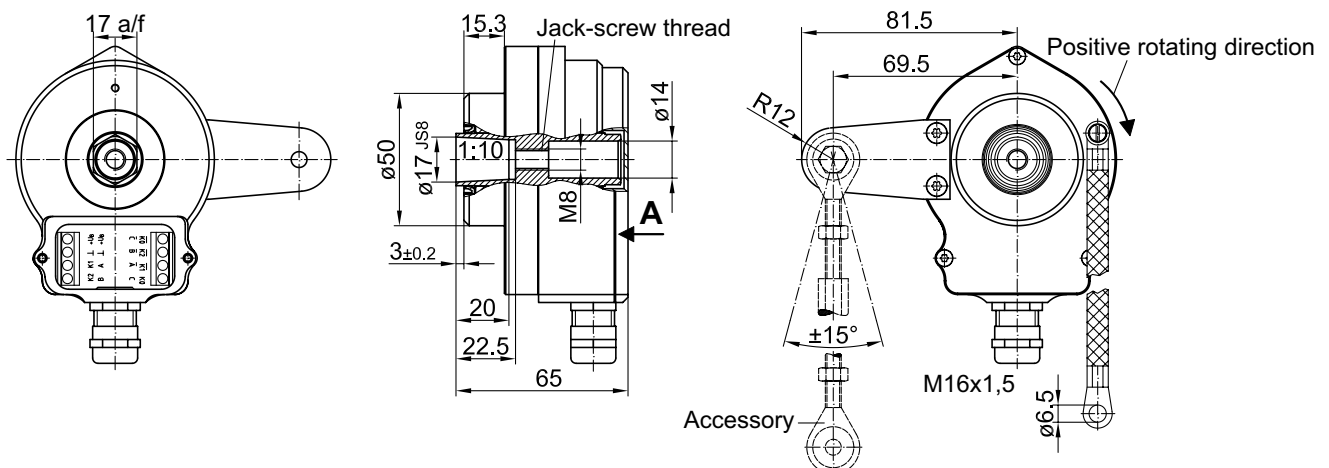
HOG 75 - With through hollow shaft without hybrid bearings



HOG 75 C - With through hollow shaft and hybrid bearings



HOG 75 KC - With cone shaft and hybrid bearings



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