

# 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 $\pm 5$ %
Consumption w/o load	$\leq 100$ mA
Pulses per revolution	250...2500
Phase shift	$90^\circ \pm 20^\circ$
Scan ratio	40...60 %
Reference signal	Zero pulse, width $90^\circ$
Sensing method	Optical
Output frequency	$\leq 120$ 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	$\leq 80$ N axial $\leq 150$ N radial
Protection DIN EN 60529	IP 56
Starting torque	$\leq 4$ Ncm
Rotor moment of inertia	180 gcm <sup>2</sup>
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	$\leq 10000$ rpm (mechanical)
Weight approx.	580 g

### HOG 75 K

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

# 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

HOG 75   **DN**

				<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>
				Through hollow shaft $\varnothing$ 12-26 mm
C				Through hollow shaft $\varnothing$ 16 mm with hybrid bearings

#### Incremental encoder with cone shaft

HOG 75 K   **C**   **DN**

				<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>
C				Cone shaft $\varnothing$ 17 mm (1:10) with hybrid bearings

#### 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

##### Diagnostic accessories

HENQ 1100 Analyzer for encoders

# Incremental encoders

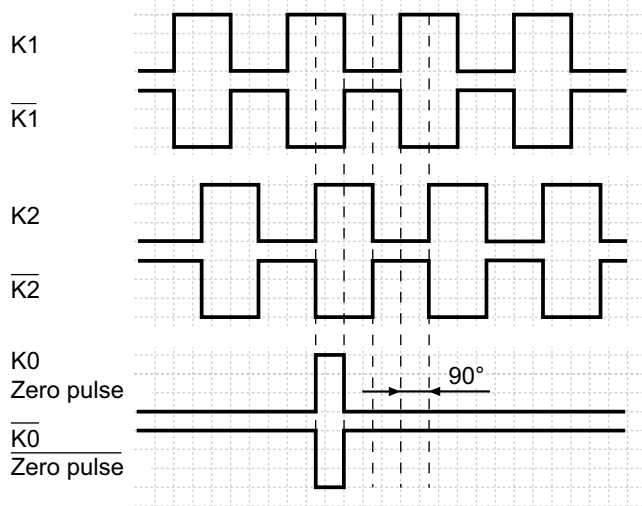
Through hollow shaft  $\varnothing 12-26$  mm or cone shaft  $\varnothing 17$  mm

250...2500 pulses per revolution

## HOG 75

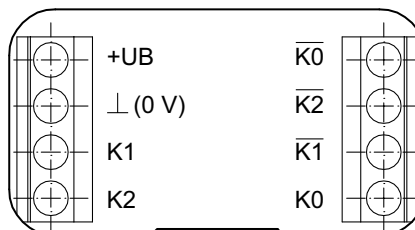
### Output signals

At positive rotating direction



### Terminal assignment

View A - Connecting terminal



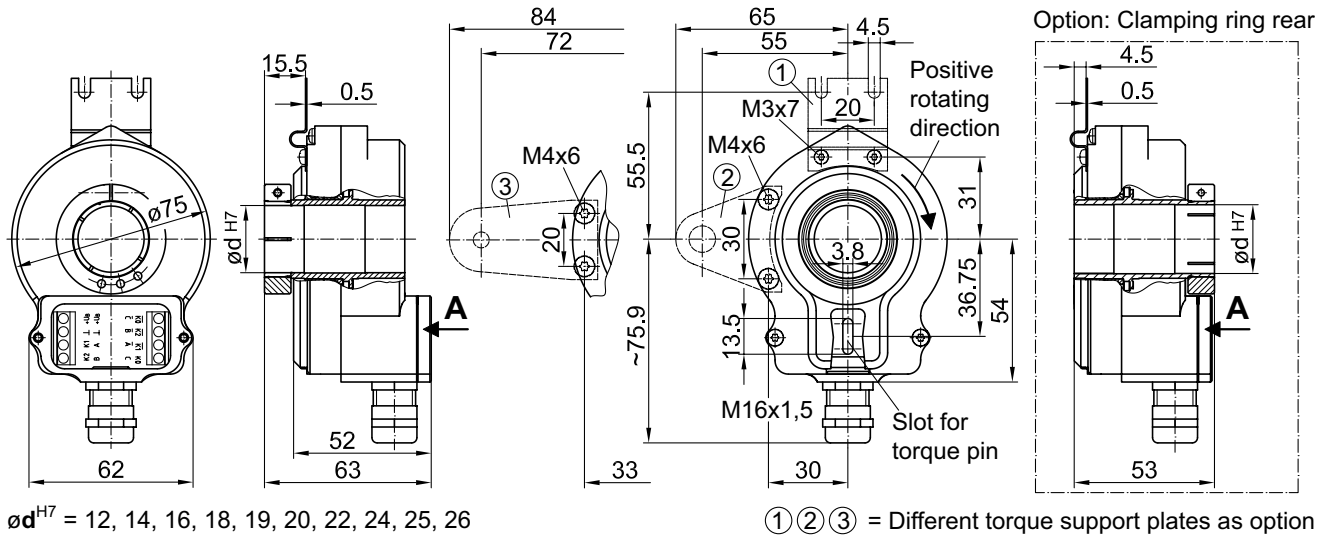
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250...2500 pulses per revolution

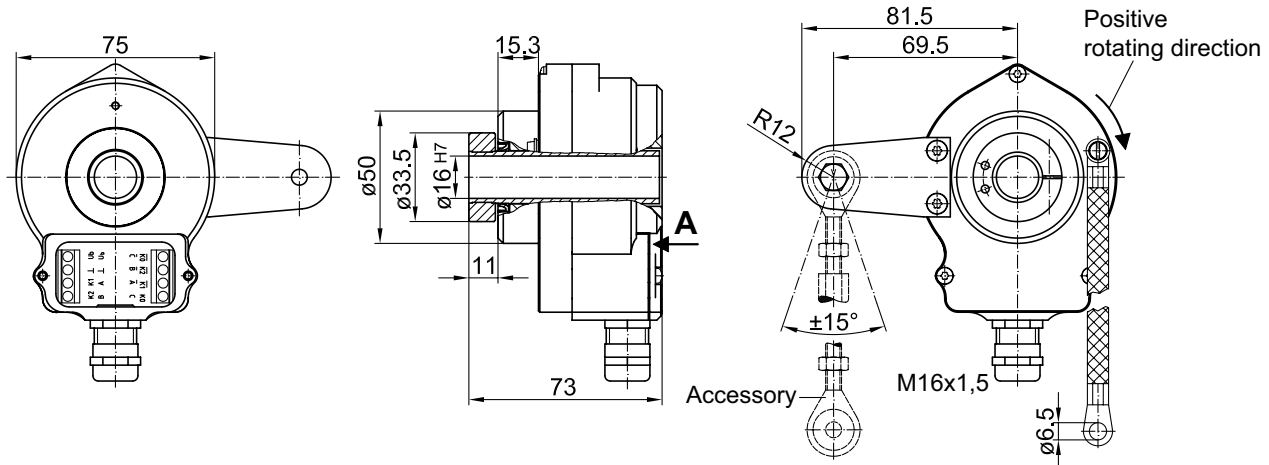
HOG 75

## Dimensions

### HOG 75 - With through hollow shaft without hybrid bearings



### HOG 75 C - With through hollow shaft and hybrid bearings



# Incremental encoders

HOG 75 KC - With cone shaft and hybrid bearings

