

Incremental encoders

End shaft $\varnothing 16$ mm or cone shaft $\varnothing 17$ mm (1:10)

Resolution 1024...10000 pulses

HOG 100



HOG 100 with radial terminal box

Features

- High resolution
- Encoder with end shaft $\varnothing 16$ mm or cone shaft $\varnothing 17$ mm (1:10)
- Optical sensing
- Logic level TTL with regulator UB 9...26 VDC
- Logic level HTL with power linedriver
- Protection against inductive shaft current by hybrid bearings
- Big terminal box, turn by 180° or axial terminal cover
- Also in combination with centrifugal switch FSL (no explosion protection)

Technical data - electrical ratings

Voltage supply	5 VDC ± 5 % 9...26 VDC 9...30 VDC
Consumption w/o load	≤ 100 mA
Resolution (steps/turn)	1024...10000
Phase shift	$90^\circ \pm 8^\circ$
Scan ratio	44...56 %
Reference signal	Zero pulse, width 90°
Sensing method	Optical
Output frequency	≤ 250 kHz
Output signals	K1, K2, K0 + inverted
Output circuit	TTL (RS422) HTL (power linedriver)
Interference immunity	DIN EN 61000-6-2
Emitted interference	DIN EN 61000-6-4
Approval	UL approval / E256710

Technical data - mechanical design

Dimensions (flange)	$\varnothing 105$ mm
Shaft	$\varnothing 16$ mm end shaft $\varnothing 17$ mm cone shaft 1:10
Shaft loading	≤ 250 N axial ≤ 400 N radial
Protection DIN EN 60529	IP 66
Operating speed	≤ 10000 rpm (mechanical)
Operating torque typ.	6 Ncm
Rotor moment of inertia	320 gcm ²
Materials	Housing: aluminium die-cast Shaft: stainless steel
Operating temperature	$-30...+85$ °C
Resistance	IEC 60068-2-6 Vibration 10 g, 10-2000 Hz IEC 60068-2-27 Shock 100 g, 6 ms
Explosion protection	II3G Ex nA IIC T4 Gc (gas) II3D Ex tc IIIC T135°C Dc (dust)
Connection	Terminal box Terminal cover
Weight approx.	1.5 kg

Incremental encoders

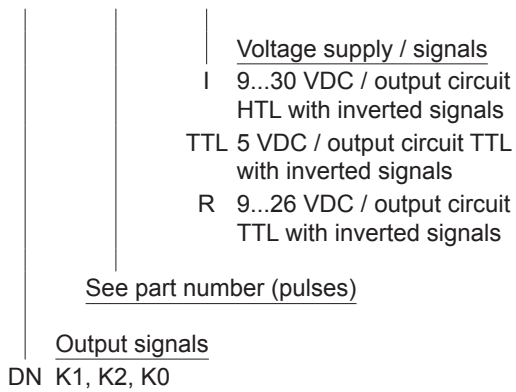
End shaft $\varnothing 16$ mm or cone shaft $\varnothing 17$ mm (1:10)
Resolution 1024...10000 pulses

HOG 100

Part number

Incremental encoder

HOG 100 **DN**



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

Part number (pulses)

1024	2048	2400	3072	5000
2000	2160	2500	4096	10000

Other pulse numbers upon request.

Incremental encoders

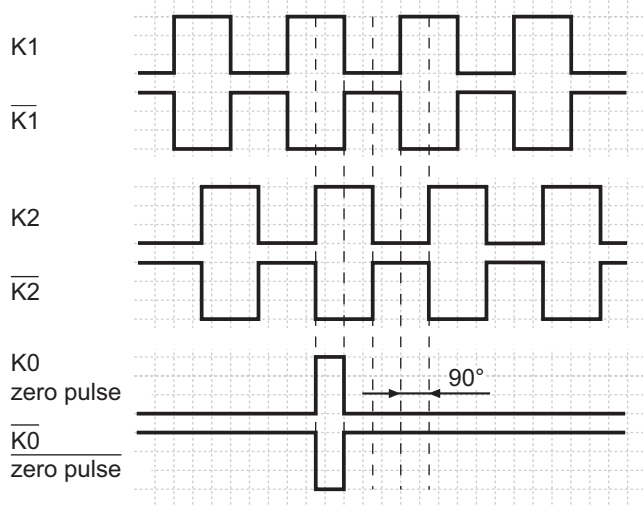
End shaft $\varnothing 16$ mm or cone shaft $\varnothing 17$ mm (1:10)

Resolution 1024...10000 pulses

HOG 100

Output signals

at positive rotating direction



Terminal assignment

View A - Connecting terminal in radial terminal box



View B - Connecting terminal in axial terminal cover

