

Incremental encoders

EX approval ATEX II2G Ex de IIC T5/T6 Gb

Resolution 250...2500 pulses

EEx HOG 161 - incremental



EEx HOG 161

Features

- Encoder incremental / ATEX
- Optical sensing
- Ex-approved by ATEX II2G Ex de IIC T5/T6 Gb
- Hollow shaft $\varnothing 30-70$ mm
- Robust light-metal housing
- Logic level TTL with regulator UB 9...26 VDC
- Logic level HTL with power linedriver
- Big terminal box, turn by 180°

Technical data - electrical ratings

Voltage supply	5 VDC ± 5 % 9...26 VDC 9...30 VDC
Consumption w/o load	≤ 100 mA
Resolution (steps/turn)	250...2500
Phase shift	90° ± 20 °
Scan ratio	40...60 %
Reference signal	Zero pulse, width 90°
Sensing method	Optical
Output frequency	≤ 120 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

Technical data - mechanical design

Dimensions (flange)	$\varnothing 160$ mm
Shaft	$\varnothing 30...70$ mm hollow shaft
Shaft loading	≤ 450 N axial ≤ 650 N radial
Protection DIN EN 60529	IP 54 (T6), IP 56 (T5)
Operating speed	≤ 5600 rpm (mechanical)
Operating torque typ.	60 Ncm
Rotor moment of inertia	31.9 kgcm ² ($\varnothing 40$) 11.3 kgcm ² ($\varnothing 70$)
Materials	Housing: aluminium alloy Shaft: stainless steel
Operating temperature	-20...+65 °C (T5) -20...+70 °C (T6)
Resistance	IEC 60068-2-6 Vibration 10 g, 50-2000 Hz IEC 60068-2-27 Shock 100 g, 6 ms
Explosion protection	II2G Ex de IIC T5/T6 Gb
Connection	Terminal box
Weight approx.	8.8 kg ($\varnothing 40$), 6.2 kg ($\varnothing 70$)

Incremental encoders

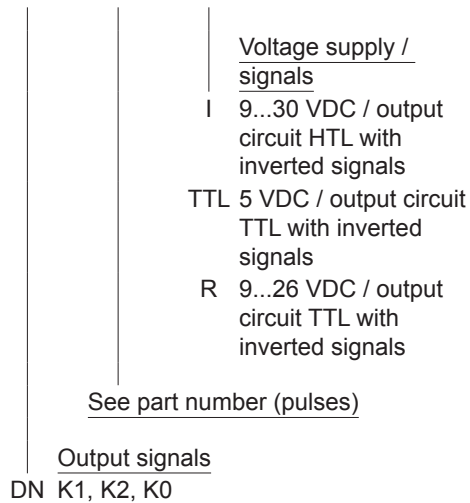
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Part number

EEx HOG 161

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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)

250	512	1024	1200	2500
500	1000	1080	2048	

Incremental encoders

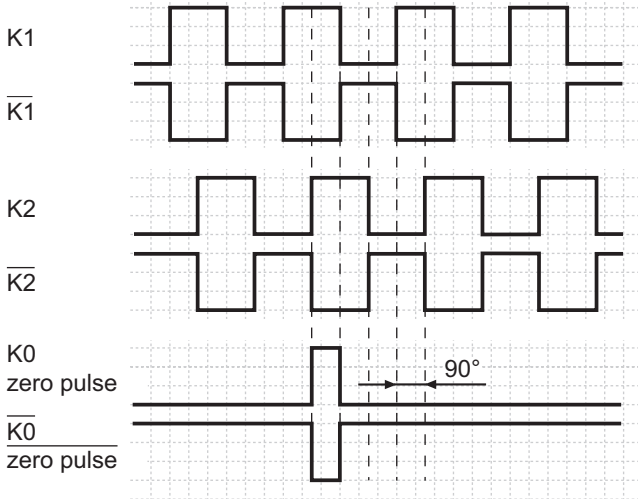
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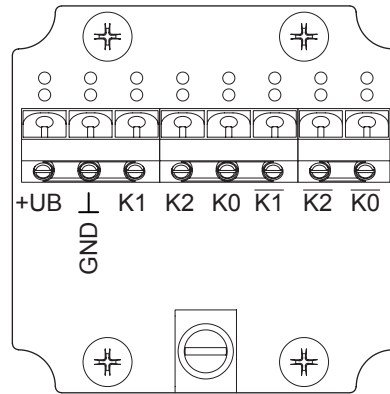
Output signals

at positive rotating direction

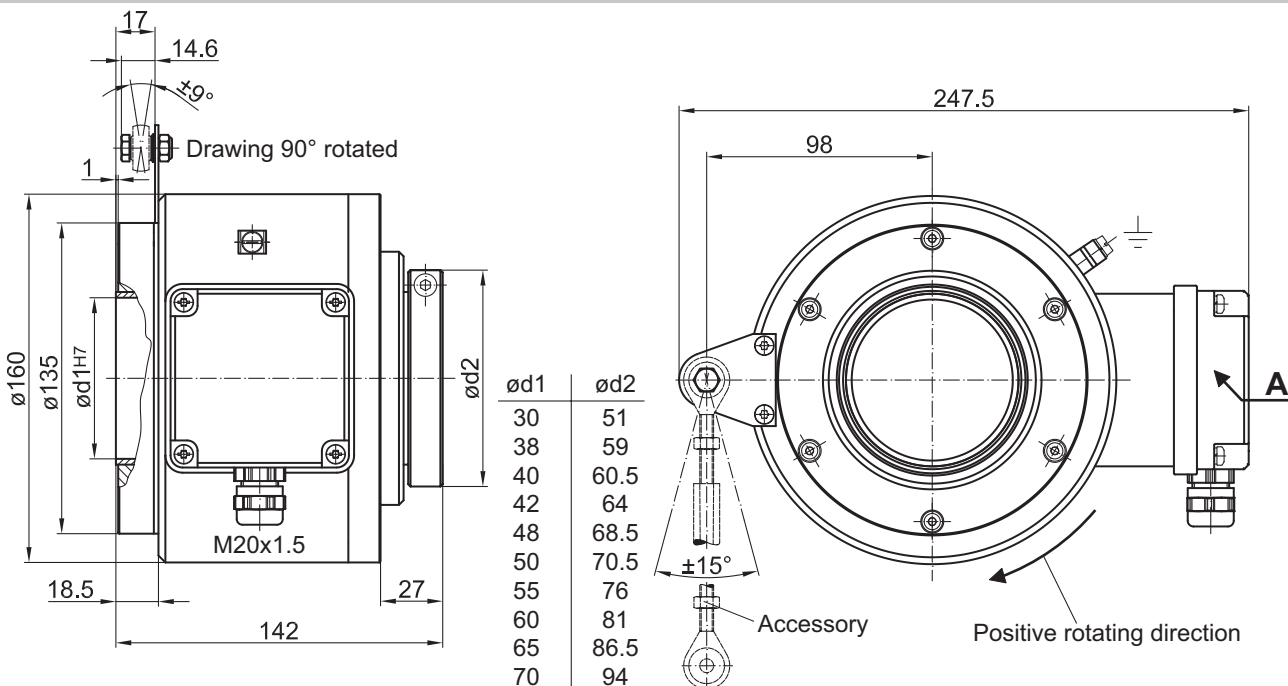


Terminal assignment

View A - Connecting terminal



Dimensions



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