

Incremental encoders

Twin encoder, end shaft max. $\varnothing 20$ mm or cone shaft $\varnothing 17$ mm (1:10)

Resolution 1...2500 pulses

HOG 10 G



HOG 10 G

Technical data - electrical ratings

Voltage supply	5 VDC ± 5 % 9...26 VDC 9...30 VDC
Consumption w/o load	≤ 100 mA
Resolution (steps/turn)	1...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 circuit	TTL (RS422) HTL (power linedriver)
Interference immunity	DIN EN 61000-6-2
Emitted interference	DIN EN 61000-6-4
Approval	UL approval / E256710

Features

- Twin-encoder featuring two separate systems
- Logic level TTL or HTL
- Suitable to drive for lines max. 500 m (TTL)
- High resistance to shock and vibrations
- Protection against inductive shaft current by hybrid bearings
- Big terminal box, turn by 180°

Optional

- With earthing brushes (no explosion protection)

Technical data - mechanical design

Dimensions (flange)	$\varnothing 105$ mm
Shaft	$\varnothing 12$...20 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	≤ 6000 rpm (mechanical)
Operating torque typ.	6 Ncm
Rotor moment of inertia	340 gcm ²
Materials	Housing: aluminium die-cast Shaft: stainless steel
Operating temperature	-40 ... $+100$ °C
Resistance	IEC 60068-2-6 Vibration 10 g, 10-2000 Hz IEC 60068-2-27 Shock 200 g, 6 ms
Explosion protection	II3G Ex nA IIC T4 Gc (gas) II3D Ex tc IIIC T135°C Dc (dust)
Connection	Terminal box
Weight approx.	2.9 kg

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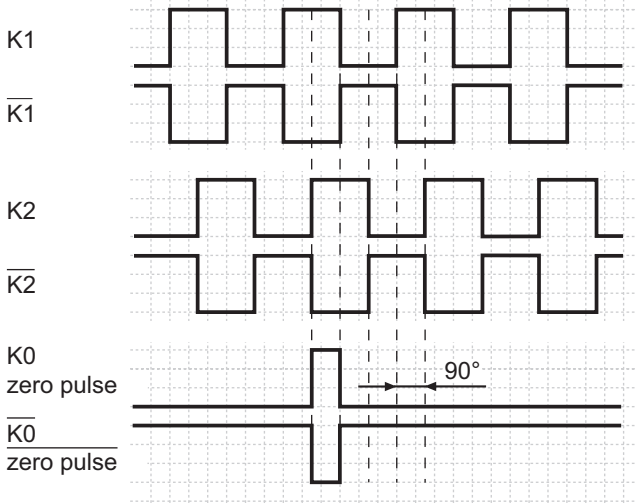
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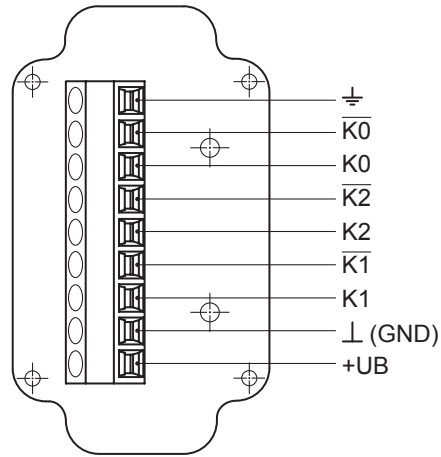
Output signals

at positive rotating direction



Terminal assignment

View A - Connecting terminal in terminal box



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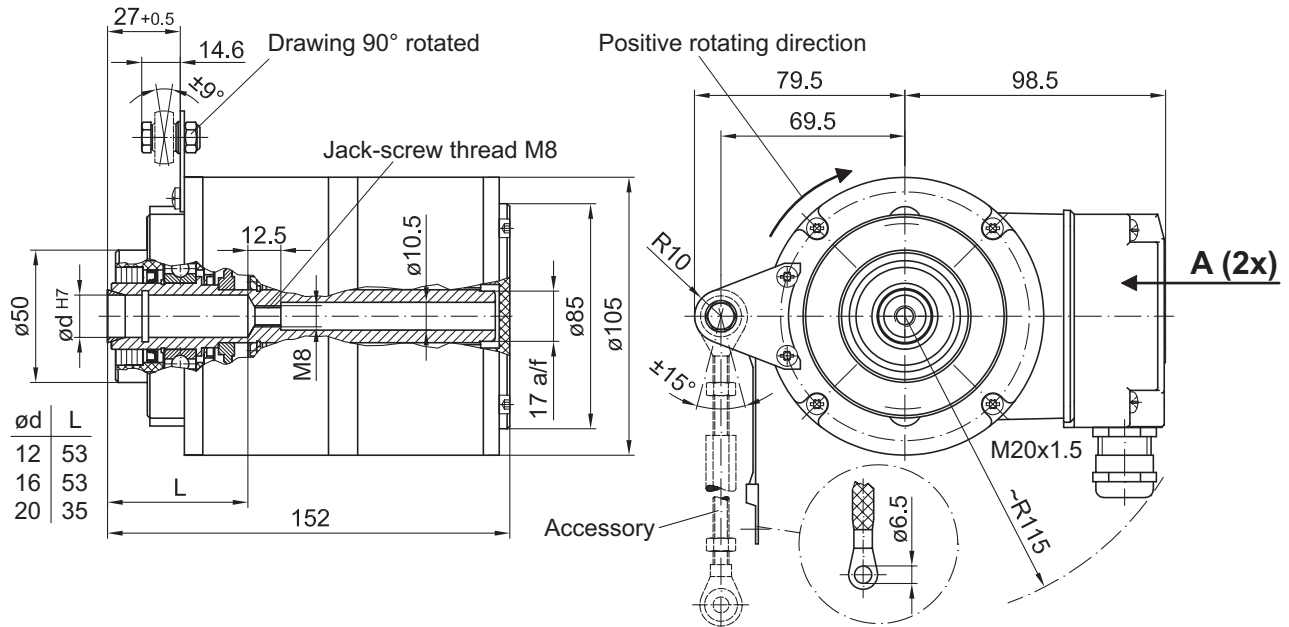
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Dimensions

HOG 10 G - version with end shaft



HOG 10 G - version with cone shaft

