

EHOG860-S11P10012

High-performant incremental HeavyDuty encoders for demanding machinery and asynchronous drives

Article number: 11730676

Overview

- Protection IP66
- Shaft insulation 3.5 kV
- Corrosion protection CX
- Operating temperature -40...+100 °C
- Cable length up to 350 m (HTL-P) or 550 m (TTL)
- Sealed and user-friendly field termination
- Extended protection circuit
- Parameterization
- Status monitoring and display with Baumer Sensor Suite
- Connection: cable gland M20
- Solid shaft $\varnothing 11$ mm
- Pulses per revolution 1...32768 (freely parameterizable)



Picture similar

HUBNER
BERLIN
A Baumer Brand



HeavyDuty
70 years of experience



Technical data

Technical data - electrical ratings

Voltage supply	4.75...30 VDC (Vin = Vout, HTL/TTL)
Consumption w/o load	≤100 mA
Pulses per revolution	1 ... 32768
Further pulses per revolution	Freely parameterizable with Baumer Sensor Suite
Phase shift	Typ. 90 °
Duty cycle	Typ. 50 %
Reference signal	Zero pulse, width 90° or 180°
Sensing method	Optical
Output frequency typ.	≤200 kHz
Output signals	K1, K2, K0 + inverted
Output stages	HTL-P (power linedriver) TTL
Shaft insulation	Suitable up to 3.5 kV
Transmission length	≤350 m at 100 kHz (HTL-P) ≤550 m at 100 kHz (TTL)
Interference immunity	EN 61000-6-2
Emitted interference	EN 61000-6-4
Approval	CE UL approval / E217823 CSA

Technical data - mechanical design

Size (flange)	ø90 mm, length 72 mm
Shaft type	ø11 x 30 mm (solid shaft with key)
Admitted shaft load	≤350 N axial ≤450 N radial
Mounting type	Solid shaft: EURO flange B10
Protection EN 60529	IP 66
Operating speed	≤6000 rpm (mechanical)
Operating torque	≤6 Ncm
Rotor moment of inertia	160 gcm ²
Material	Housing: aluminium, powder-coated Shaft: stainless steel
Operating temperature	-40...+100 °C
Resistance	IEC 60068-2-6 Vibration 20 g, 10-2000 Hz IEC 60068-2-27 Shock 300 g, 6 ms 1 Mio. brake shocks
Corrosion protection	IEC 60068-2-52 Salt mist for ambient conditions CX according to ISO 12944-2
Connection	Terminal box with pluggable push in terminal blocks and cable gland M20

Optional

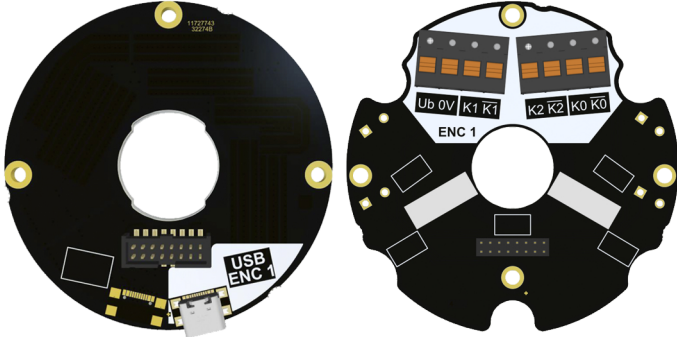
- Parameterized pulse numbers can be ordered ex works
- ATEX

Possible combinations

- Redundant sensing with second output (HOG870)
- Speed monitoring (HOG890)

Terminal assignment

Terminal box



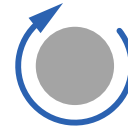
Terminal significance

U_b	Voltage supply
0V	Ground
K0	Zero pulse (reference signal)
$\overline{K0}$	Zero pulse inverted
K1	Output signal channel 1
$\overline{K1}$	Output signal channel 1 inverted
K2	Output signal channel 2
$\overline{K2}$	Output signal channel 2 inverted

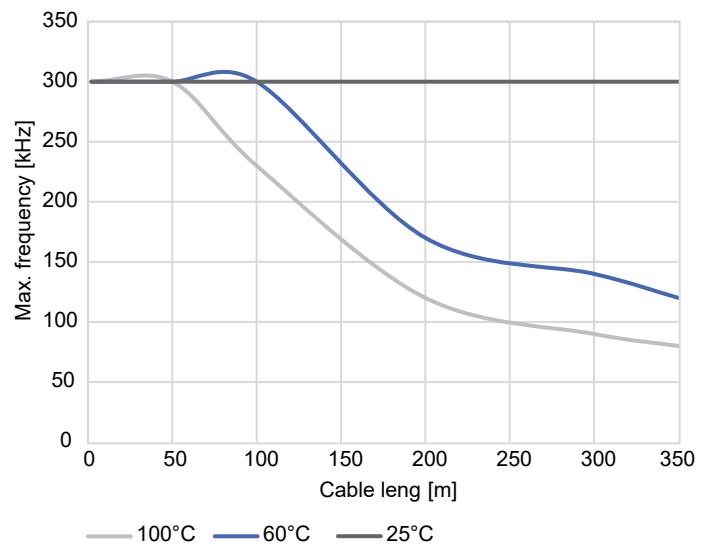
USB ENC1 USB-C for parameterization (SMART)

Output signals

With positive direction of rotation / clockwise, with view on the encoder shaft

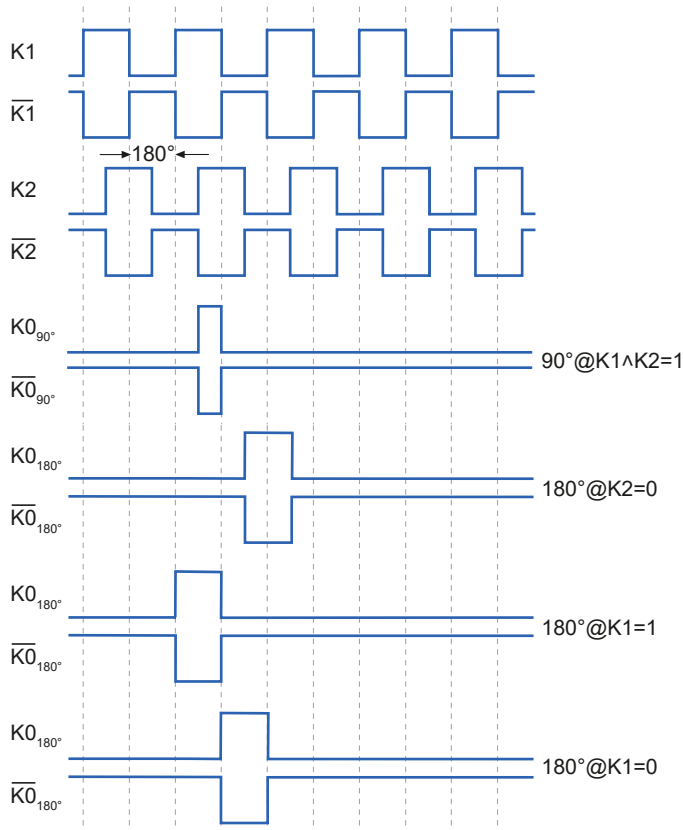


Derating



Max. frequency over cable length and temperature, U_b 24 V

Output signals

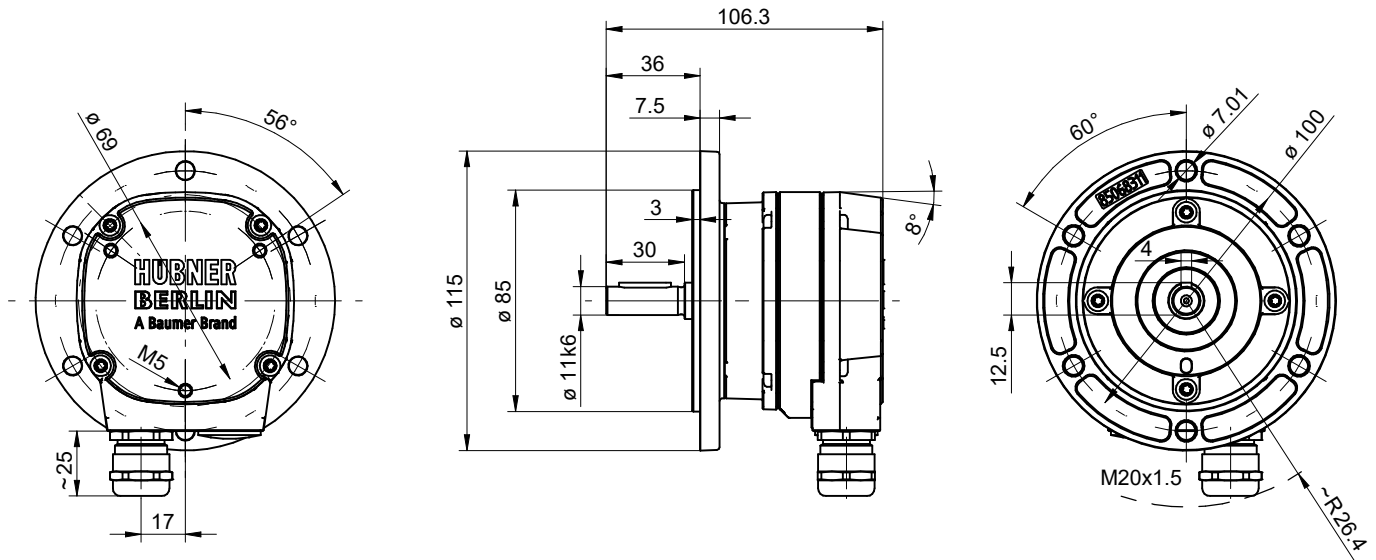


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Dimensions



Solid shaft, cable gland

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Ordering reference

Product	Shaft	Pulses per revolution, output	Connection	Comment	Material number
HOG860	Solid shaft ø11 mm	1024, HTL-P	1 x cable gland M20	FIX	EHOG860-11730669
			1 x flange connector M23	FIX	EHOG860-11730670
		2048, HTL-P	1 x cable gland M20	FIX	EHOG860-11730672
			1 x flange connector M23	FIX	EHOG860-11730673
		Parameterization at factory ¹⁾	1 x cable gland M20	FIX	EHOG860-11730674
			1 x flange connector M23	FIX	EHOG860-11730675
		Parameterization & monitoring at customer	1 x cable gland M20	SMART	EHOG860-11730676
			1 x flange connector M23	SMART	EHOG860-11730677
	Blind hollow shaft ø12G7 mm	1024, HTL-P	1 x cable gland M20	FIX	EHOG860-11730678
			1 x flange connector M23	FIX	EHOG860-11730679
		2048, HTL-P	1 x cable gland M20	FIX	EHOG860-11730680
			1 x flange connector M23	FIX	EHOG860-11730681
		Parameterization at factory ¹⁾	1 x cable gland M20	FIX	EHOG860-11730682
			1 x flange connector M23	FIX	EHOG860-11730683
		Parameterization & monitoring at customer	1 x cable gland M20	SMART	EHOG860-11730684
			1 x flange connector M23	SMART	EHOG860-11730685
	Blind hollow shaft ø16G7 mm	1024, HTL-P	1 x cable gland M20	FIX	EHOG860-11730686
			1 x flange connector M23	FIX	EHOG860-11730687
		2048, HTL-P	1 x cable gland M20	FIX	EHOG860-11730688
			1 x flange connector M23	FIX	EHOG860-11730689
		Parameterization at factory ¹⁾	1 x cable gland M20	FIX	EHOG860-11730690
			1 x flange connector M23	FIX	EHOG860-11730691
		Parameterization & monitoring at customer	1 x cable gland M20	SMART	EHOG860-11730692
			1 x flange connector M23	SMART	EHOG860-11730693
	Cone shaft ø17 mm	1024, HTL-P	1 x cable gland M20	FIX	EHOG860-11730694
			1 x flange connector M23	FIX	EHOG860-11730695
		2048, HTL-P	1 x cable gland M20	FIX	EHOG860-11730696
			1 x flange connector M23	FIX	EHOG860-11730697
		Parameterization at factory ¹⁾	1 x cable gland M20	FIX	EHOG860-11730698
			1 x flange connector M23	FIX	EHOG860-11730699
		Parameterization & monitoring at customer	1 x cable gland M20	SMART	EHOG860-11730701
			1 x flange connector M23	SMART	EHOG860-11730702

1) Please choose resolution, output stage and zero pulse (length and position) with your order

Resolution: 1...32768 ppr

Output stage: HTL-P or TTL

Zero pulse:

- 90°, K1=K2=1

- 180°, K1=0

- 180°, K2=0

- 180°, K1=1

Example for EHOG860 - 11730674: 5000 ppr, TTL, 180°, K2=0