

Overview

- Protection IP66, IP67, IP69K
- Shaft insulation 3.5 kV
- Extended corrosion protection larger CX with special coating and selected materials
- Extended operating temperature optional -50...+100 °C
- Signal outputs with automatic temperature compensation for stable signals 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
- 4-fold sealing concept for protection against abrasive dust, humid and salty moisture and temperature changes
- Cable gland M20 or M25



Picture similar



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	Pulse numbers parameterized ex works or freely parameterizable (SMART) 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	≤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)	ø105 mm, length 94 mm
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Technical data - mechanical design

Shaft type	ø16G7 mm (blind hollow shaft) ø11 x 30 mm (solid shaft with key)
Admitted shaft load	≤350 N axial ≤450 N radial
Mounting type	Hollow shaft: central screw Solid shaft: EURO flange B10
Protection EN 60529	IP 66 / IP 67 / IP 69K
Operating speed	≤6000 rpm (mechanical)
Operating torque	≤6 Ncm
Rotor moment of inertia	160 gcm ²
Material	Housing: aluminium, anodised, powder-coated Shaft, screws, torque plate, cable glands: stainless steel
Operating temperature	-50...+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 or M25 (for connecting wires up to 1.5 mm ²)

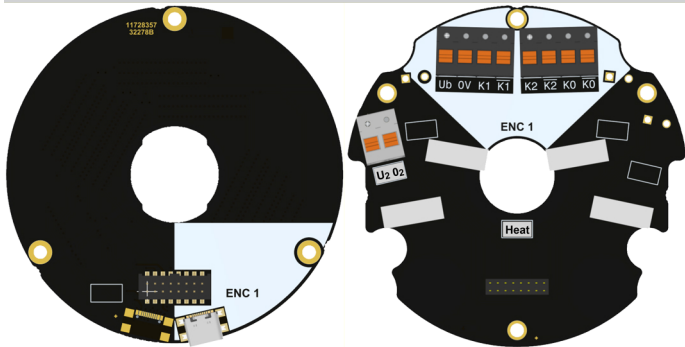
Optional

- Parameterized pulse numbers can be ordered ex works
- ATEX
- DNV

Possible combinations

- Redundant sensing with second output (HOG1070)
- Speed monitoring (HOG1090)
- Centrifugal switch FSL (HOG1095)

Terminal assignment

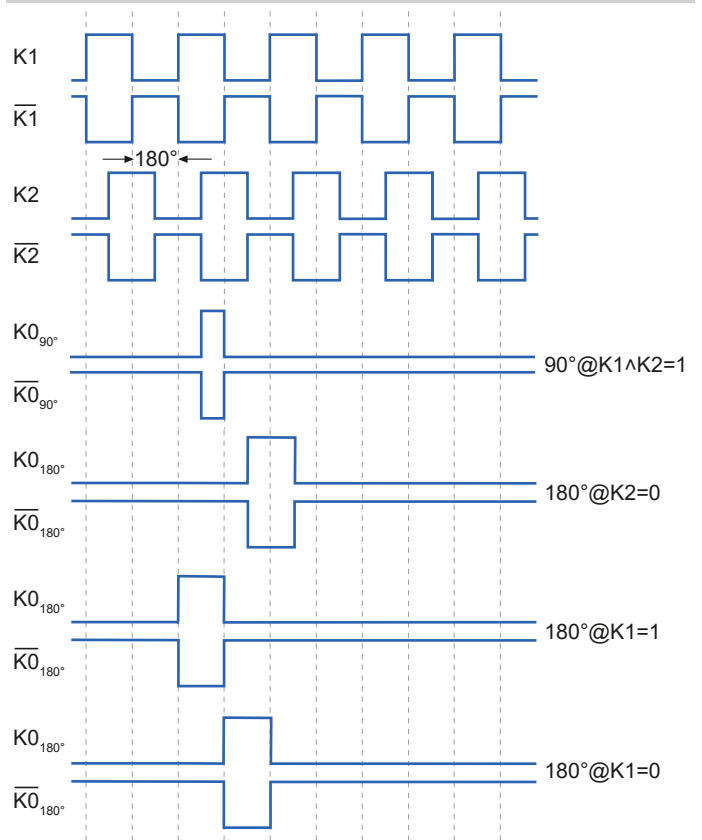


Terminal significance

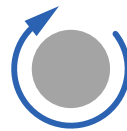
U_b	Voltage supply
0V	Ground
K0	Zero pulse (reference signal)
$\overline{K0}$	Zero pulse inverted
K1	Output signal channel 1
$\overline{K1}$	Output signal channel 1 inverted
K2	Output signal channel 2
$\overline{K2}$	Output signal channel 2 inverted

USB ENC1 USB-C for parameterization (SMART)

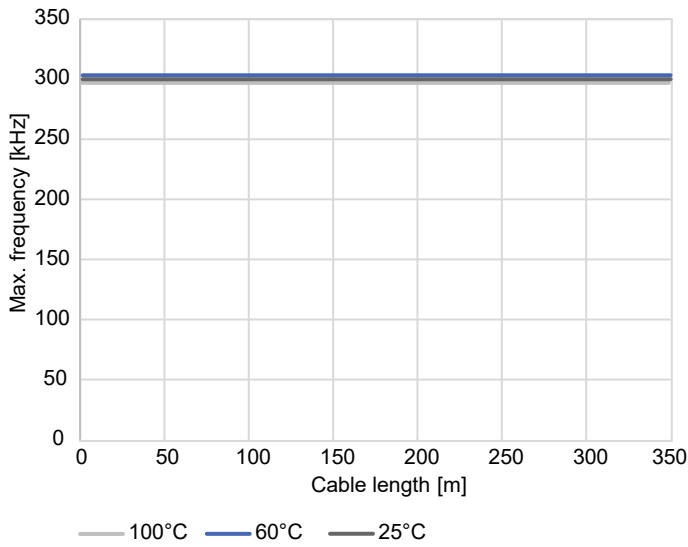
Output signals



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

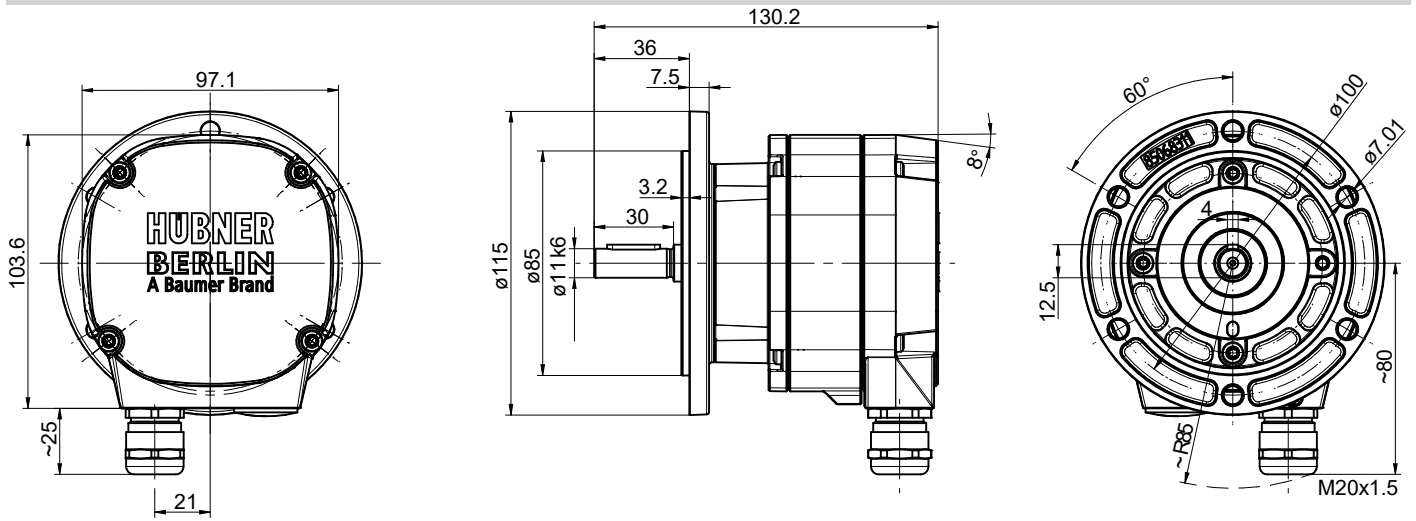


Derating



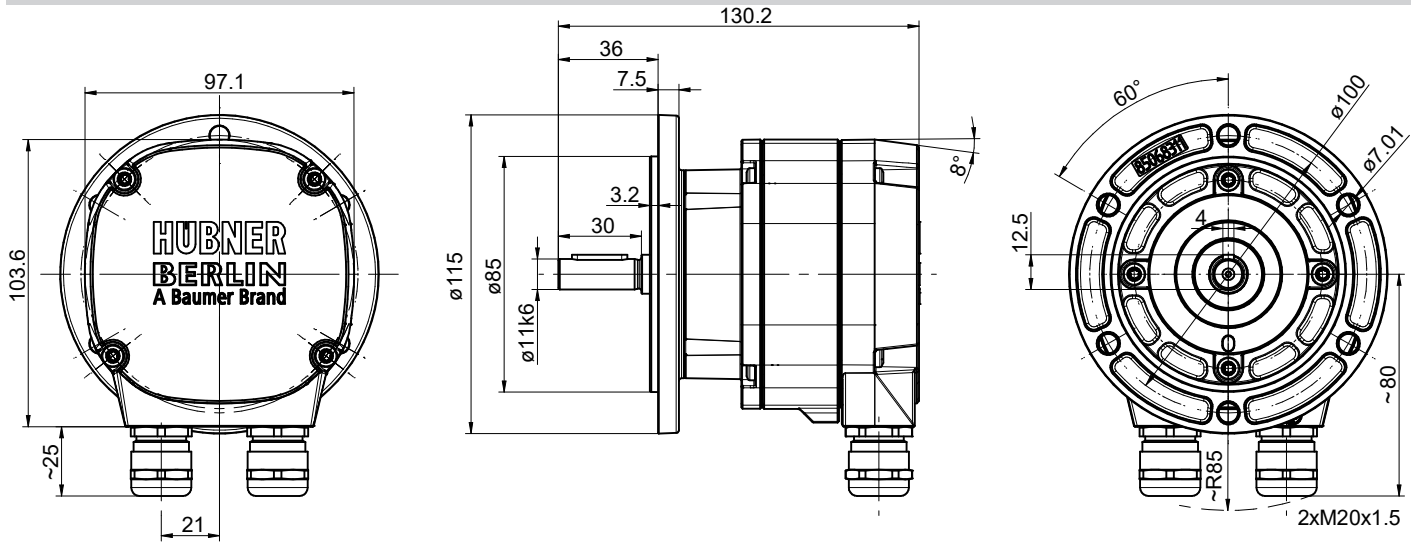
Max. frequency over cable length and temperature, Ub 24 V

Dimensions

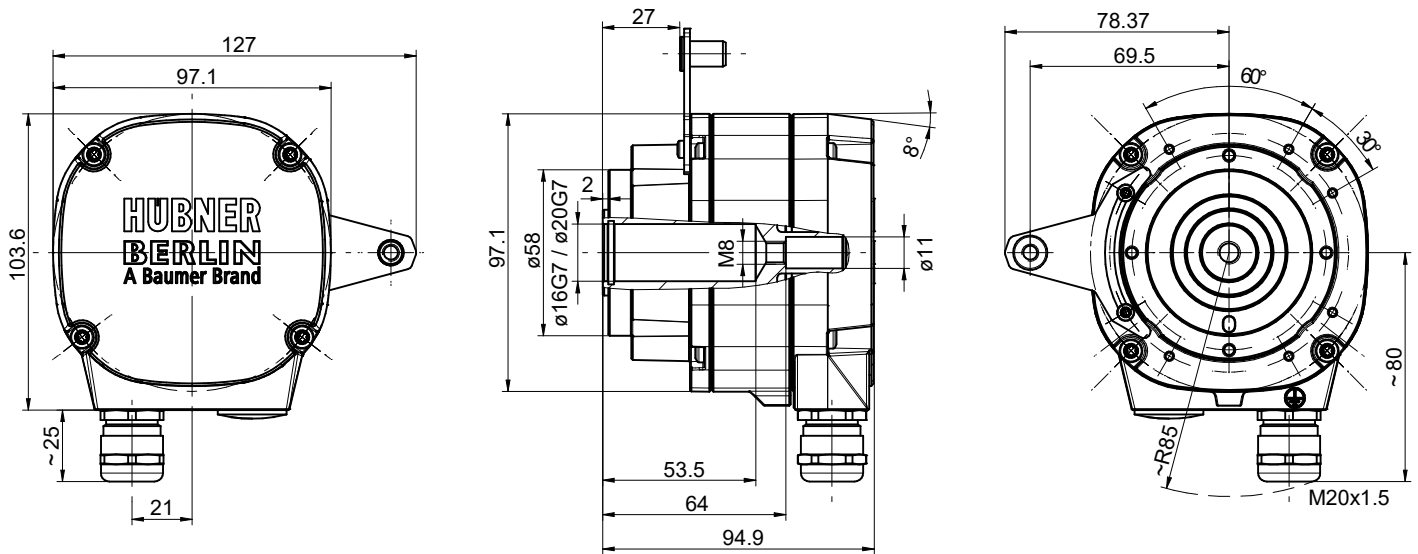


Solid shaft, cable gland M20

Dimensions

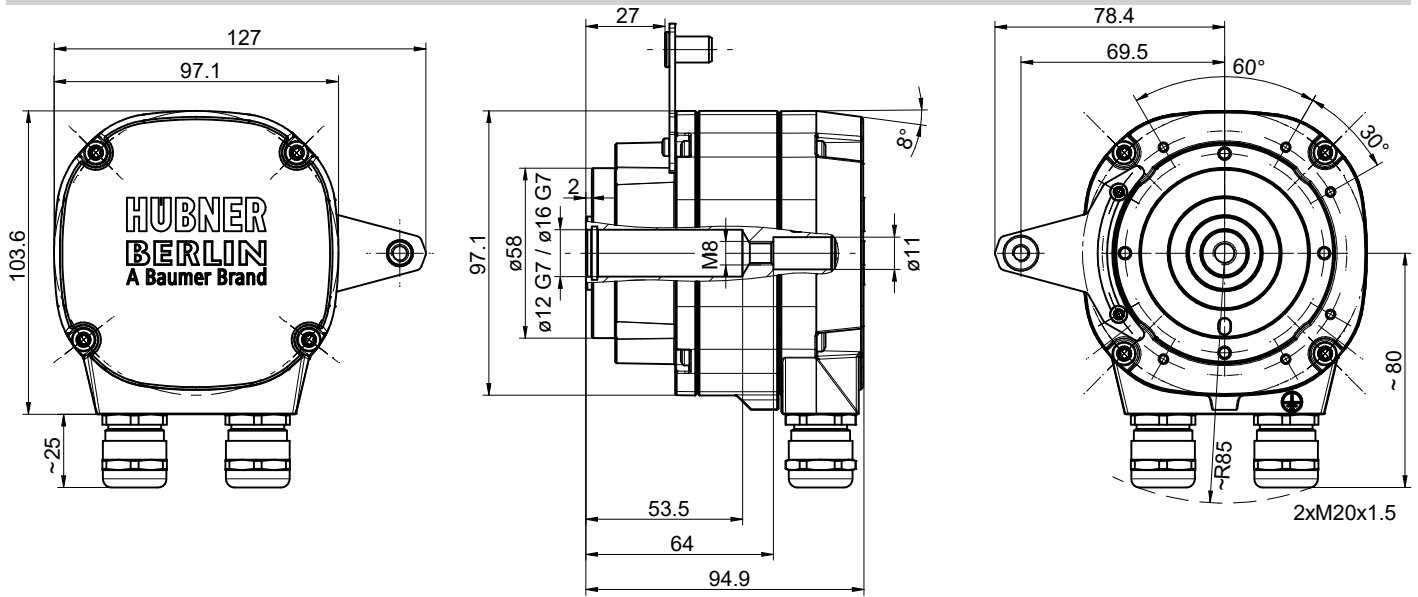


Solid shaft, cable gland 2xM20



Blind hollow shaft, cable gland M20 (torque plate can be mounted at different positions)

Dimensions



Blind hollow shaft, cable gland 2xM20 (torque plate can be mounted at different positions)

Ordering reference

Product	Shaft	Pulses per revolution, output	Connection	Comment	Material number
HOG1060.X	Solid shaft ø11 mm	Parameterization & monitoring at customer	1 x Cable gland M20	SMART	EHOG1060.X-11731304
		Parameterization & monitoring at customer	2 x Cable gland M20	SMART, Heating	EHOG1060.X-11731305
	Blind hollow shaft ø16G7 mm	Parameterization & monitoring at customer	1 x Cable gland M20	SMART	EHOG1060.X-11731306
		Parameterization & monitoring at customer	2 x Cable gland M20	SMART, Heating	EHOG1060.X-11731307