

# SERIE 50HI INOX

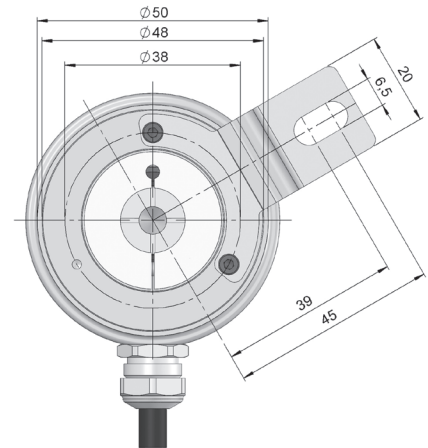
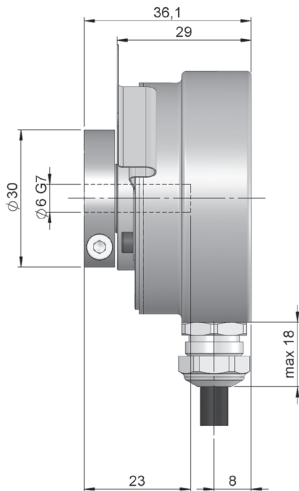
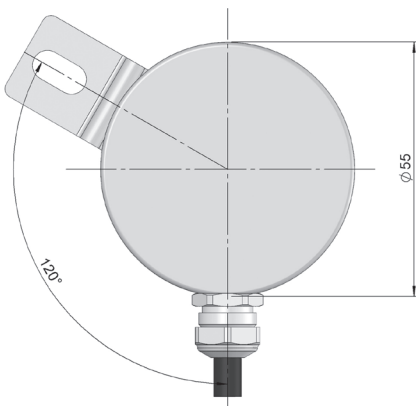
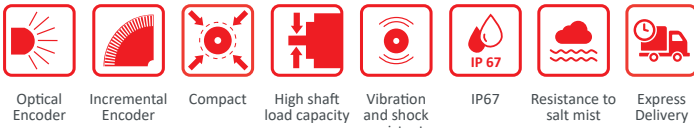
## COMPACT INCREMENTAL BLIND HOLLOW SHAFT ENCODER FOR DEMANDING INDUSTRIAL APPLICATIONS



Image with flexible flange 93.0102086



- Resolution up to 5.000 pulses per turn
- Compact dimensions  $\varnothing 55 \times 36 \text{ mm}$
- Blind hollow shaft  $\varnothing 6 \text{ mm}$
- Resistance to salt mist according to ISO 9227:2006-10
- Protection class IP67 according to DIN EN 60529
- Rugged encoder made of stainless steel for extreme environmental conditions
- Anti-rotation system through flexible flange
- Connection by cable (other cable length available)



Drawing mechanical option type 1, connection type 1, blind hollow shaft type 1 with anti-rotation system through flexible flange 93.0102086 (not included)

### REFERENCE

Reference example: 50HI-11113-2048

Serie	Mechanical option	Blind-Hollow shaft	Output signals	Connection	Power Supply / Electronic output	Pulses number	Special customer
50HI -	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> -	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	1. Frontal clamp	1. $\varnothing 6 \text{ mm}$ (*)	1. A $\tilde{\text{A}}$ +B $\tilde{\text{B}}$ +0 $\tilde{\text{O}}$	1. Radial cable	3. 5...30 VDC / Push-pull		

Order your reference  
Step file 3D

info@encoderhohner.com  
service available in 24 h

(\*) Other shaft diameter available, upon request.

The required anti-rotation system is not included in the reference (order separately). Anti-rotation system is supplied disassembled and includes the screws required for assembly to the encoder. All systems available in the sections "MOUNTING ACCESSORIES".



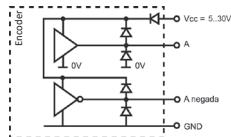
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## COMPACT INCREMENTAL BLIND HOLLOW SHAFT ENCODER FOR DEMANDING INDUSTRIAL APPLICATIONS

### MECHANICAL SPECIFICATIONS

Materials	Housing: Stainless Steel AISI304L (1.4307) Flange: Stainless Steel AISI304L (1.4307) Shaft: Stainless Steel AISI304L (1.4307)
Bearings	Ballraces
Bearings lifetime	1x10 <sup>10</sup> rev.
Housing fixing	Flexible flange
Permitted misalignment	±0.5 mm axial, ±0.3 mm radial
Shaft fixing	Clamp (Anodized aluminium 20 µm)
Blind hollow shaft diameter	6 mm (other shaft diameter available, upon request)
Maximum number of revolutions permitted mechanically	6000 rpm
Protection against dust and splashes according to DIN EN 60529	IP67
Rotor inertia moment	30 gcm <sup>2</sup>
Starting torque at 20°C (68°F)	≤ 0,02 Nm
Maximum load permitted on axial shaft	40 N
Maximum load permitted on radial shaft	60 N
Weight aprox.	0,5 Kg
Operating temperature range	-20°C to +85°C
Vibration according to DIN EN 60068-2-6	100 m/s <sup>2</sup> (10Hz...2000Hz)
Shock according to DIN EN 60068-2-27	1000 m/s <sup>2</sup> (6ms)
Resistance to salt mist (NSS)	according to ISO 9227:2006-10 (274 h)
Radial connection	2 meters cable (other cable lengths available or connector mounted at the end of the cable, upon request)

### OUTPUT SIGNALS



<b>OUTPUT CIRCUIT</b>	<b>Push-Pull Differential</b>
Reference code	1
Power supply	5...30 VDC
Output voltage	5...30 VDC
Consumption	Typical: 30 mA Max: 85 mA
Max. load capability / channel	±70 mA
"Low" signal level	VOL < 0.5 VDC
"High" signal level	VOH > 2.5 VDC
Frequency	≤ 300 kHz
Short circuit protection	Yes
Protection polarity inversion	Yes

Channel A leads (90° electric) channel B, view from the shaft, shaft rotating clockwise

### CONNECTION



	<b>Cable</b> 4x2x0,14 95.0008076
GND	Blue
VCC	Red
A	Pink
B	Green
Ã	Grey
Ã	Yellow
0 (reference)	White
Õ	Brown
Shield*	Shield

(\*): Shield connected to the encoder housing. It is recommended to connect the end of the wire shield to the ground of the equipment where the encoder is connected. ⚡