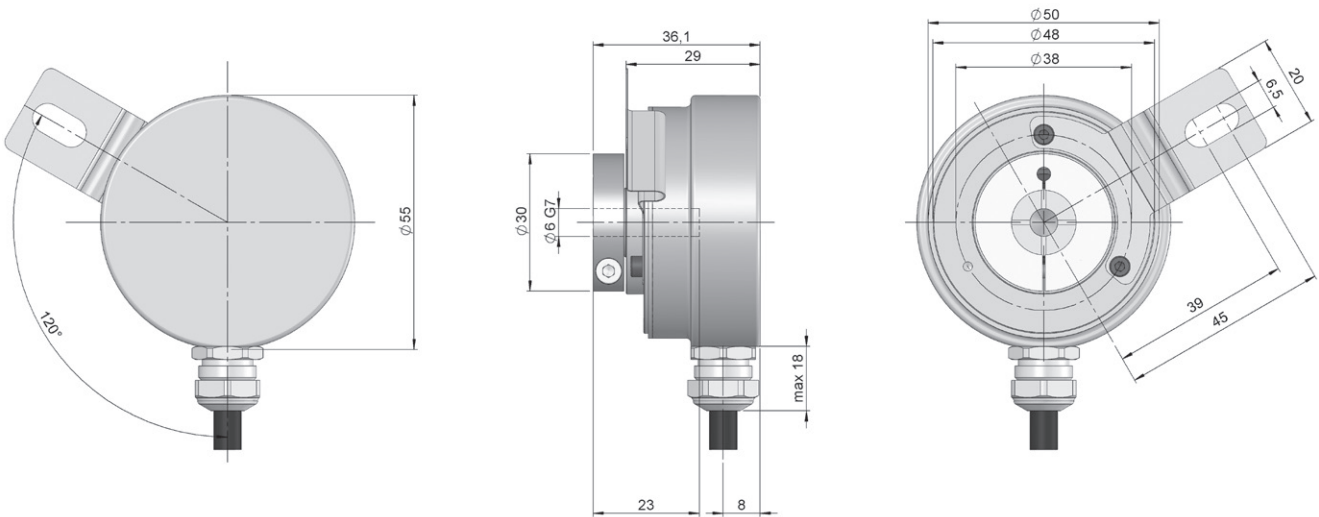
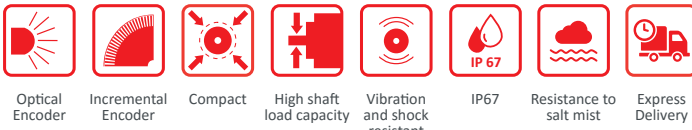


SERIE 50HI INOX

COMPACT INCREMENTAL BLIND HOLLOW SHAFT ENCODER FOR DEMANDING INDUSTRIAL APPLICATIONS



- 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 $\tilde{\sim}$ +B $\tilde{\sim}$ +0 $\tilde{\sim}$	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".



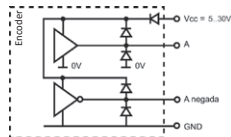
SERIE 50HI INOX

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 ¹⁰ 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 ²
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 ² (10Hz...2000Hz)
Shock according to DIN EN 60068-2-27	1000 m/s ² (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



OUTPUT CIRCUIT	Push-Pull Differential
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



	95.0008076 Cable 4x2x0,14
GND	Blue
VCC	Red
A	Pink
B	Green
~A	Grey
~B	Yellow
0 (reference)	White
~0	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. \perp