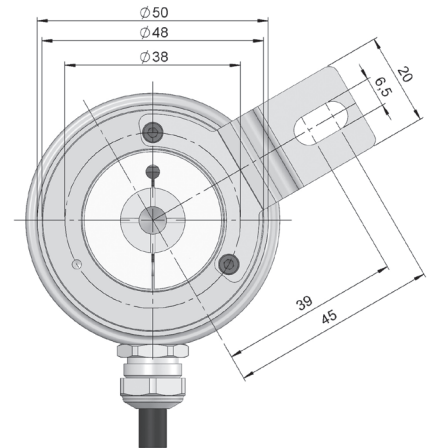
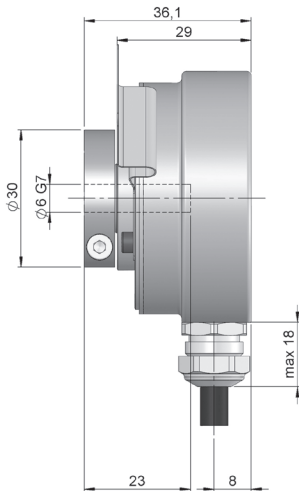
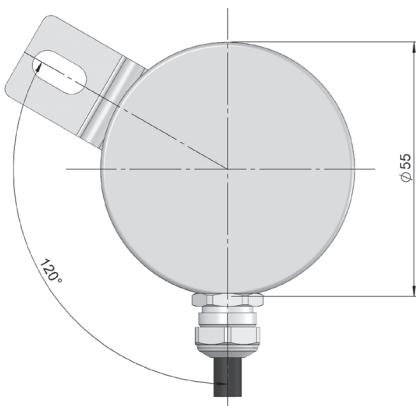
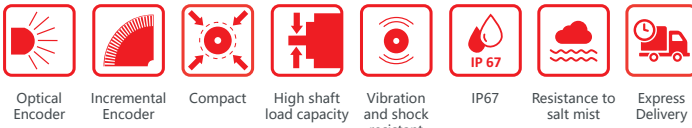




SERIE 50HI INOX

COMPACT INCREMENTAL BLIND HOLLOW SHAFT ENCODER FOR DEMANDING INDUSTRIAL APPLICATIONS

- Resolution up to 5000 pulses per turn
- Compact dimensions $\varnothing 55 \times 36$ mm
- Blind hollow shaft $\varnothing 6$ 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)



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 and flexible flange (93.0102086)	1. $\varnothing 6$ mm (*)	1. ABZ, $\overline{\text{ABZ}}$	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 diameters available, upon request.



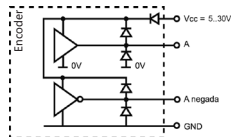
SERIE 50HI INOX

COMPACT INCREMENTAL BLIND HOLLOW SHAFT ENCODER FOR DEMANDING INDUSTRIAL APPLICATIONS

MECHANICAL SPECIFICATIONS

Materials	Cover: Stainless Steel AISI304L (1.4307) Housing: 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 diameters 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 approx.	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



	Cable 4x2x0.14 95.0008076
GND	Blue (BU)
+UB	Red (RD)
A	Pink (PK)
B	Green (GN)
\bar{A}	Grey (GY)
\bar{B}	Yellow (YE)
Z	White (WH)
\bar{Z}	Brown (BN)
Case	Shield