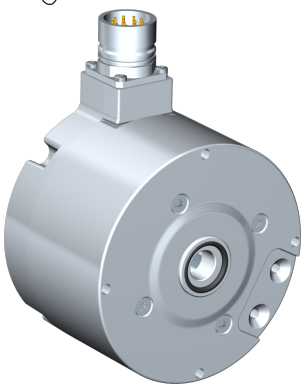
Encoder model

XHI 861

Part number

727508-01



X-heavy duty Hollow shaft encoder, Incremental

- Performance hollow shaft encoder for heavy duty industries
- High vibration and shock resistance
- Electrically insulated shaft

Mechanical data

Operating temperature	-20 °C...+100 °C
Ingress protection class [IEC 60529]	IP67 (IP66 at shaft inlet)
Vibration [IEC 60068-2-64]	≤ 20 g, 55-2000 Hz
Shock [IEC 60068-2-27]	≤ 400 g, 3.5 ms
Shaft load max (axial/radial)	500 N / 1200 N
Rotational speed max	6000 rpm
Shaft material	Stainless steel with insulated peek insert
Cover material	Aluminium (coated)
Weight	1300 g

Encoder configuration

Code key	861007116
Type	XHI
Shaft type	Ø12 mm blind hollow shaft
Flange type	86-flange
Resolution	1024 ppr
Power supply	5 Vdc
Output signal	TTL
Connection type	M23 connector 12-pin
Pin layout	CW
Number of channels	6 (S00, S00\, S90, S90\, Sref, Sref\)

Electrical data

Polarity protected	No
Short circuit protected incremental outputs	Yes
Current consumption (No load)	85 mA (Max. 155 mA)
Incremental output load (max)	± 20 mA
Output frequency max	200 kHz
Cable length max	50 m at 50 kHz
Channel separation	90 °el ± 25 °el
Dividing error	± 50 °el

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11 Mar 2026 Specification can be changed without prior notice.

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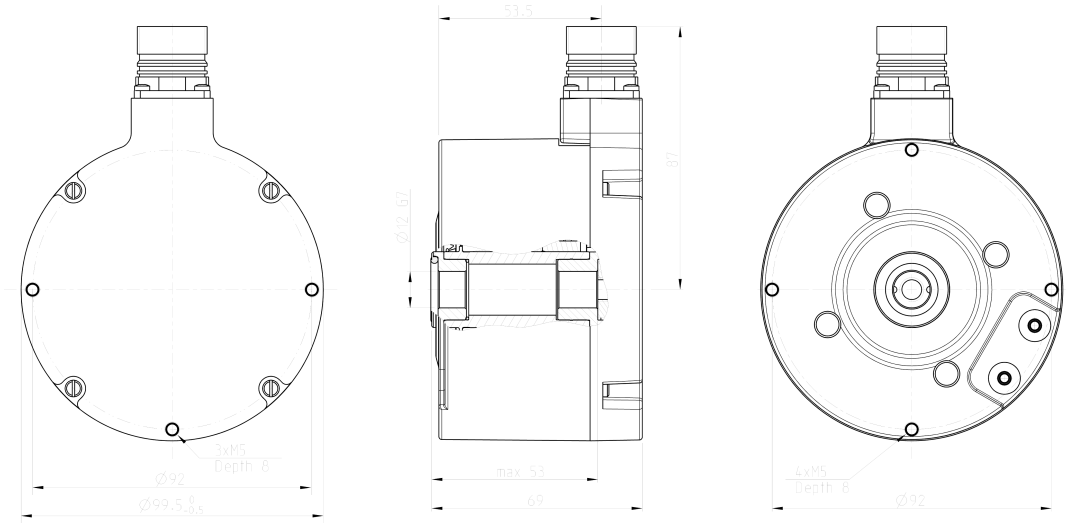
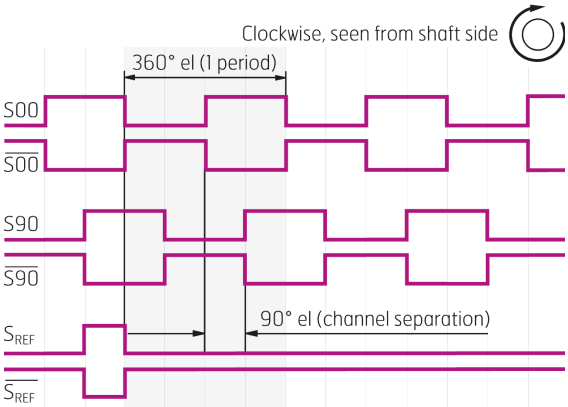
Dimensions



Pin Configuration

Function	Pin
+E Volt	12
0 Volt	10
0 (Sref)	3
0 inverted (Sref\)	4
1 (S90)	8
1 inverted (S90\)	1
2 (S00)	5
2 inverted (S00\)	6

Output signal



Available options

Advanced Diagnostic System
Torque bracket

Order information

Part number	727508-01