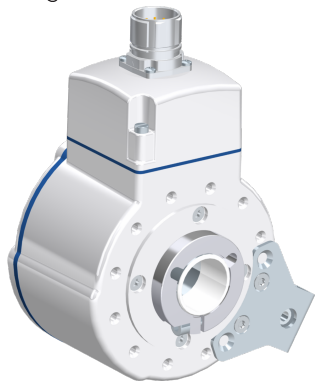


**X-heavy duty Hollow shaft encoder, Incremental**

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

**Mechanical data**

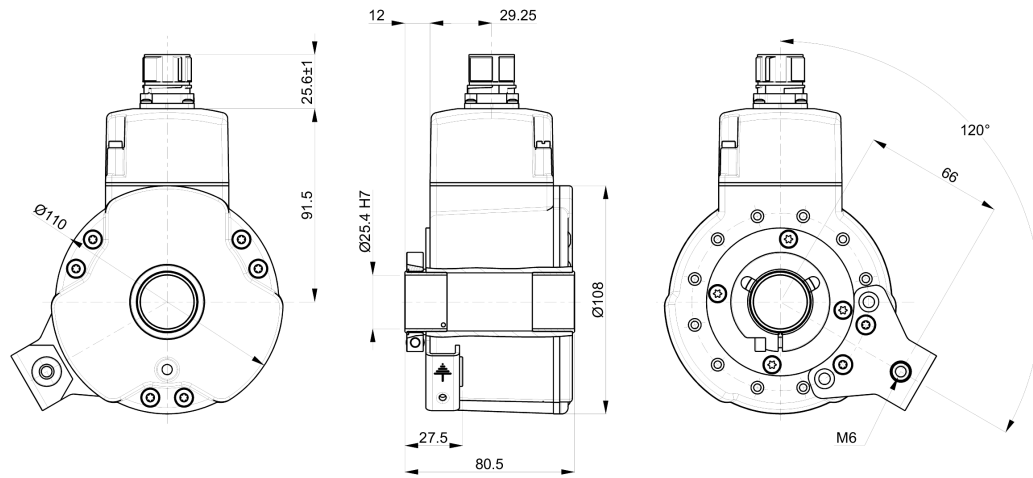
Operating temperature	-20 °C...+100 °C
Ingress protection class [IEC 60529]	IP67 (IP66 at shaft inlet)
Vibration [IEC 60068-2-64]	≤ 20 g, 55-2000 Hz
Shock [IEC 60068-2-27]	≤ 400 g, 3.5 ms
Shaft load max (axial/radial)	50 N / 100 N
Rotational speed max	6000 rpm
Shaft material	Stainless steel with insulated peek insert
Cover material	Aluminium (anodized)
Weight	1400 g

Encoder configuration

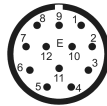
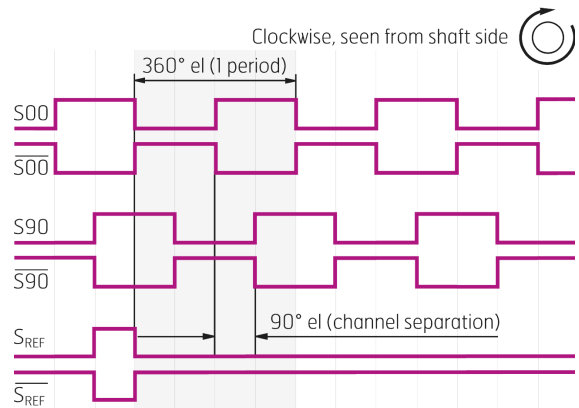
Type	XHI
Model	803 Standard
Shaft type	Ø1 inch through-going hollow shaft
Flange type	87-flange
Resolution	1024 ppr
Power supply	9-30 Vdc
Output signal	HTL
Connection type	M23 connector 12-pin
Connecting direction	Radial
Pin layout	CW
Number of channels	6 (S00, S00\, S90, S90\, Sref, Sref\)
Torque support	120° torque bracket

Electrical data

Polarity protected	Yes
Short circuit protected incremental outputs	Yes
Current consumption (No load)	60 mA at 24 Vdc (Max. 80 mA)
Incremental output load (max)	± 40 mA
Output frequency max	200 kHz
Cable length max	100 m at 100 kHz
Channel separation	90 °el ± 25 °el
Dividing error	± 50 °el

Dimensions**Pin Configuration**

Function	Pin
+E Volt	12
0 Volt	10
S00	5
S00 inverted	6
S90	8
S90 inverted	1
Sref	3
Sref inverted	4
Status	7

**Output signal****Available options**

Overvoltage protection
Advanced Diagnostic System

Order information

Part number 737451-02