**Extreme Shaft encoder, Absolute**

- Extreme resistance to mechanical loads, vibrations and shock
- High encapsulation level, IP67, for use in harsh environments

**Mechanical data**

Operating temperature	-40 °C...+100 °C
Ingress protection class [IEC 60529]	IP 67
Vibration [IEC 60068-2-64]	≤ 150 m/s ²
Shock [IEC 60068-2-27]	≤ 1000 m/s ²
Shaft load max (axial/radial)	1000 N / 680 N
Rotational speed max	4000 rpm
Shaft material	Stainless steel
Weight	6900 g

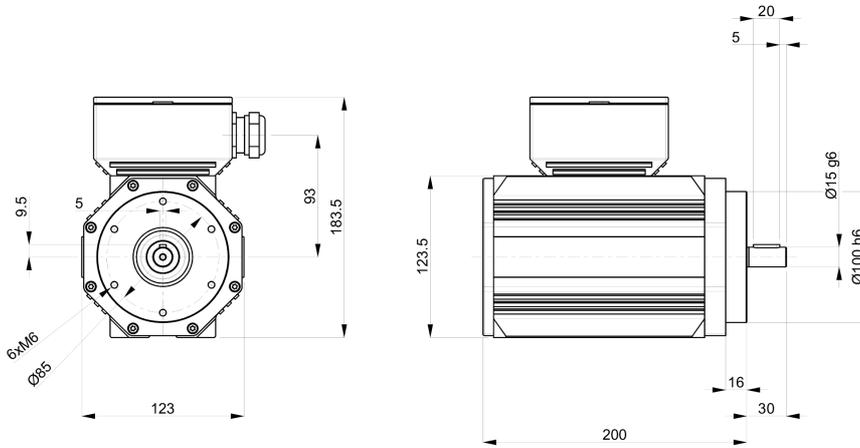
Encoder configuration

Type	ESA
Model	1608 - Extreme
Shaft type	Ø15 mm shaft with keyway
Flange type	91-flange
Power supply	5 Vdc ±10%
Absolute resolution	25 bit (13 bit singleturn + 12 bit multiturn)
Output interface	EnDat 2.1 without additional 1Vpp signals
Connection type box A	1x Cable gland M25, 13-16 mm cable thickness
Connecting direction	Radial

Electrical data

Polarity protected	No
Current consumption (No load)	Max 200 mA
Cable length max	Max. 100 m (10 m at 2 MHz)
Absolute accuracy	± 158 arcsec
Frequency range	Max. 2 MHz
Code type	Binary

Dimensions



Pin Configuration

Function	Pin
+E Volt	1
0 Volt	2
Data	3
Data inverted	4
Clock	5
Clock inverted	6
Sense+	7
Sense-	8

Order information

Part number

727329-01