

Ruggedized Shaft encoder, Incremental

- Robust encoder with solid shaft
- Short-circuited protected outputs
- IP67 at housing, IP66 at shaft inlet



Encoder configuration

Type	RSI
Model	503 Standard
Shaft type	Ø6 mm with partial flat
Flange type	52-flange
Resolution	2500 ppr
Power supply	9-30 Vdc
Output signal	HTL
Connection type	MS connector 10-pin
Connecting direction	Axial
Number of channels	6

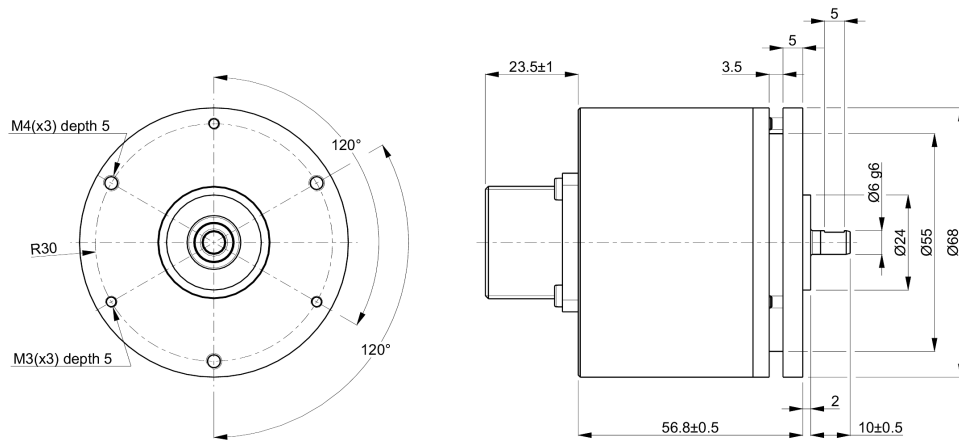
Mechanical data

Operating temperature	-40 °C...+70 °C
Ingress protection class [IEC 60529]	IP67 (IP66 at shaft inlet)
Vibration [IEC 60068-2-6]	≤ 300 m/s ²
Shock [IEC 60068-2-27]	≤ 2000 m/s ²
Shaft load (axial/radial)	50 N / 60 N
Rotational speed max	6000 rpm
Shaft material	Stainless steel
Cover material	Aluminium
Weight	300 g

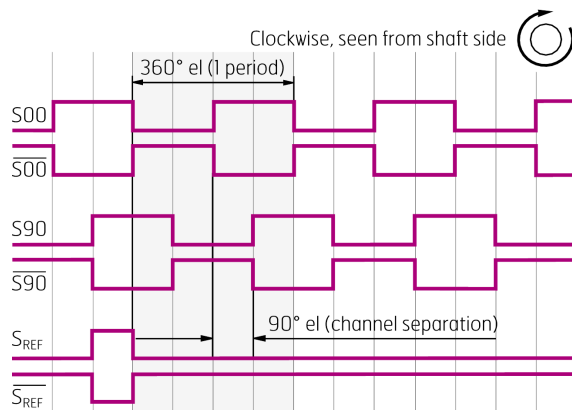
Electrical data

Polarity protected	Yes
Short circuit protected	Yes
Current consumption	50 mA at 24 Vdc (Max. 75 mA)
Incremental output load (max)	± 40 mA
Output frequency max	300 kHz
Cable length max	100 m at 100 kHz
Channel separation	90 °el ± 25 °el
Dividing error	± 50 °el
MTTFd value [Years]	1111

Dimensions

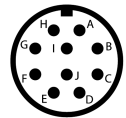


Output signal



Pin Configuration

Function	Pin
S90	A
S90 inverted	B
S00 inverted	C
S00	D
+EV	E
0V	F
Sref	G
Sref inverted	H
Status	I



Order information

Part number	507652-04
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