

Ruggedized Shaft encoder, Incremental

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



Mechanical data

Operating temperature	-40 °C...+70 °C
Ingress protection class [IEC 60529]	IP67 (IP66 at shaft inlet)
Vibration [IEC 60068-2-64]	≤ 300 m/s ²
Shock [IEC 60068-2-27]	≤ 2000 m/s ²
Shaft load max (axial/radial)	50 N / 60 N
Rotational speed max	6000 rpm
Shaft material	Stainless steel
Cover material	Aluminium (Anodized)
Weight	300 g

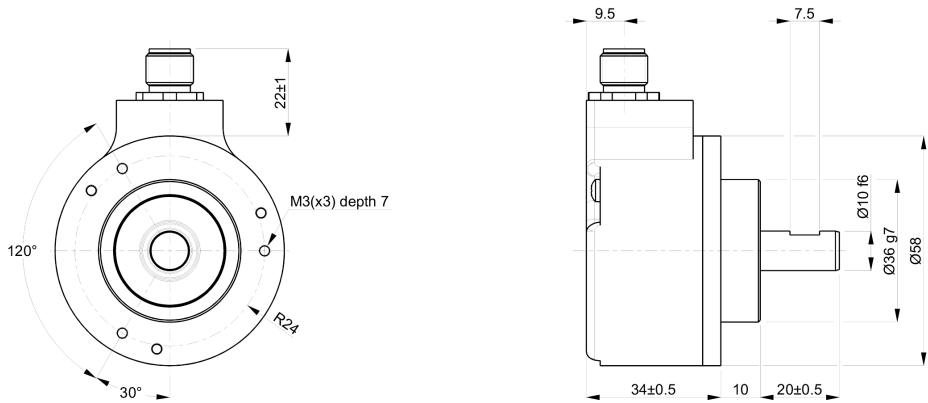
Encoder configuration

Type	RSI
Model	503 Standard
Shaft type	Ø10 mm with partial flat
Flange type	Clamping flange (61-type)
Resolution	3600 ppr
Power supply	9-30 Vdc
Output signal	RS422
Connection type	M12 connector 8-pin
Connecting direction	Radial
Number of channels	6 (S00, S00\, S90, S90\, Sref, Sref\)

Electrical data

Polarity protected	Yes
Short circuit protected incremental outputs	Yes
Current consumption (No load)	25 mA at 24 Vdc (Max. 40 mA)
Incremental output load (max)	± 20 mA
Output frequency max	300 kHz
Cable length max	1000 m
Channel separation	90 °el ± 25 °el
Dividing error	± 50 °el

Dimensions

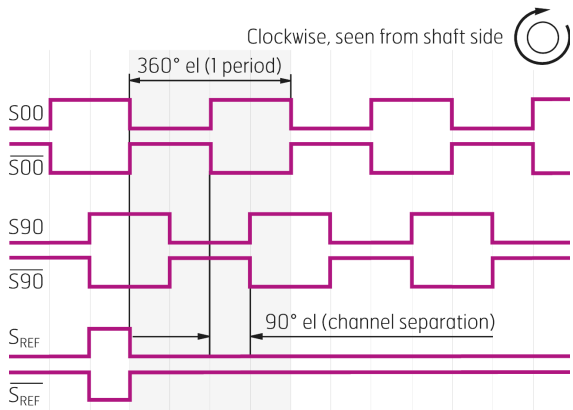


Pin Configuration

Function	Pin
S90 inverted	1
Sref	2
S90	3
S00	4
S00 inverted	5
Sref inverted	6
0 volt	7
+E volt	8



Output signal



Order information

Part number	597820-03
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