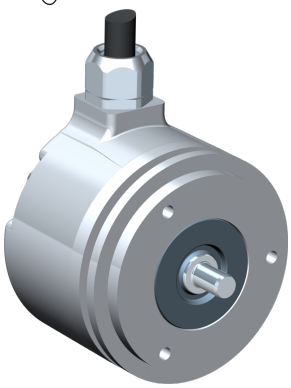
Encoder model

RSI 503

Part number

392775-02



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/s²
Shock [IEC 60068-2-27]	≤ 2000 m/s²
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	Ø6 mm round
Flange type	Synchro flange (63-type)
Resolution	100 ppr
Power supply	9-30 Vdc
Output signal	HTL
Connection type	Cable
Connecting direction	Radial
Cable length	1.50 m

Electrical data

Polarity protected	Yes
Short circuit protected incremental outputs	Yes
Current consumption (No load)	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

4 Apr 2026 Specification can be changed without prior notice.

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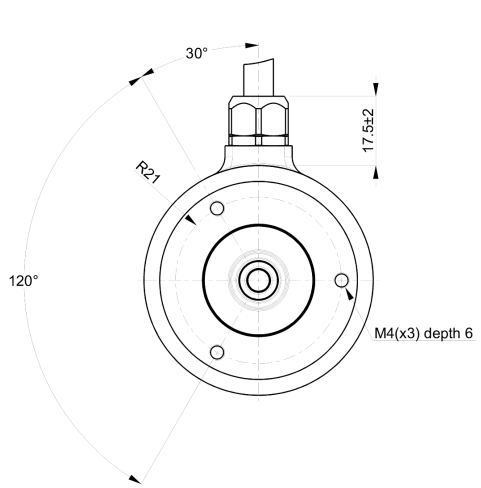
Encoder model

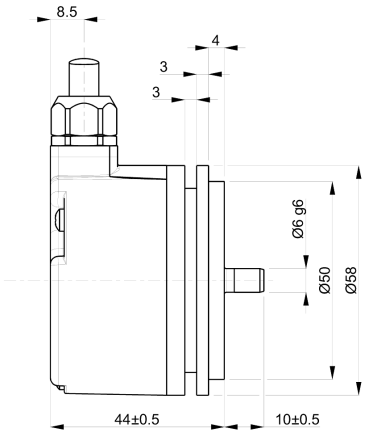
RSI 503

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Dimensions

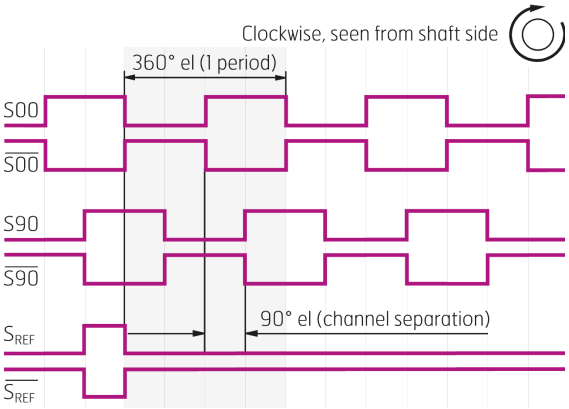




Pin Configuration

Function	Colour
S00	Yellow
S00 inverted	Black
S90	Green
S90 inverted	White
Sref	Brown
Sref inverted	Violet
+E Volt	Red
0V	Blue
Status	Grey
Chassis	Shield
NC	Pink

Output signal



Order information

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