

Ruggedized Shaft encoder, Incremental

- Robust encoder with solid shaft
- Short-circuited protected outputs
- IP67 at housing, IP66 at shaft inlet
- Dimensions according to imperial standards



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

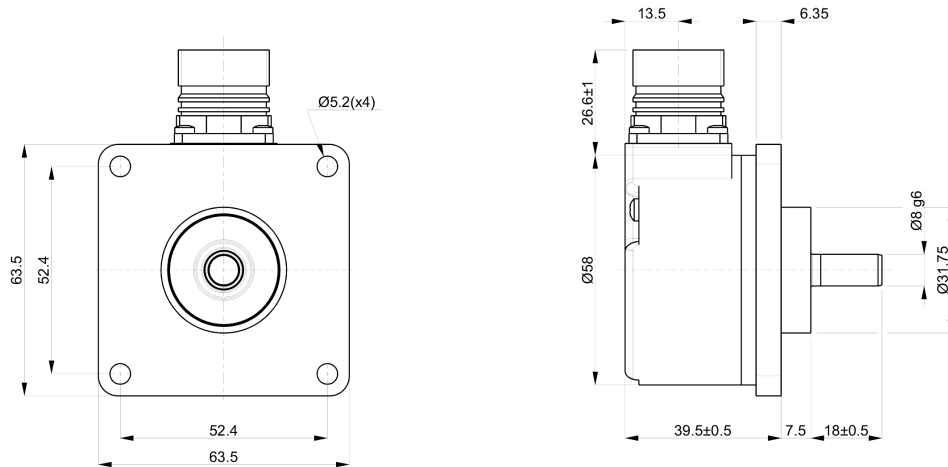
Encoder configuration

Type	RSI
Model	505 Imperial measurements
Shaft type	Ø8 mm round
Flange type	Square flange (65-type)
Resolution	2000 ppr
Power supply	9-30 Vdc
Output signal	HTL
Connection type	M23 connector 12-pin
Connecting direction	Radial
Number of channels	6 (S00, S00\, S90, S90\, Sref, Sref\)

Electrical data

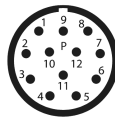
Polarity protected	Yes
Current consumption (No load)	50 mA at 24 Vdc (Max. 75 mA)
Incremental output load (max)	± 40 mA
Output frequency max	300 kHz
Cable length max	100 m at 100 kHz
Channel separation	90 °el ± 25 °el
Dividing error	± 50 °el

Dimensions

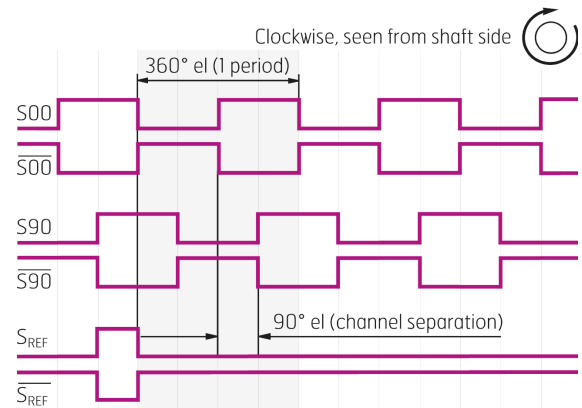


Pin Configuration

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



Output signal



Order information

Part number	551041-03
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