Encoder model
RSI 501

Ruggedized Shaft encoder, Incremental

- Robust ø58 mm encoder with solid shaft
- Short-circuited protected outputs
- IP67 at housing, IP66 at shaft inlet
- Extra robust electronics

CE   TÜV SÜD

Mechanical data

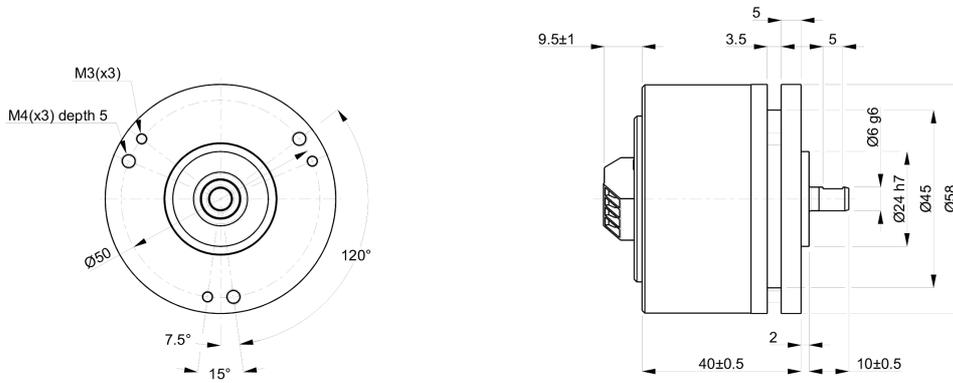|	
Operating temperature	-40 °C...+70 °C
Ingress protection class [IEC 60529]	IP67 (IP66 at shaft inlet)
Vibration [IEC 60068-2-64]	≤ 300 m/s²
Shock [IEC 60068-2-27]	≤ 2000 m/s²
Shaft load max (axial/radial)	100 N / 120 N
Rotational speed max	3000 rpm
Shaft material	Stainless steel
Cover material	Aluminium (Anodized)
Weight	300 g

Encoder configuration

Type	RSI
Model	501 Extra robust
Shaft type	Ø6 mm with partial flat
Flange type	51-flange
Resolution	100 ppr
Power supply	9-36 Vdc
Output signal	High Current HTL (HCHTL)
Connection type	Screw terminals 4-pin
Connecting direction	Axial
Number of channels	2 (S00, S90)

Electrical data

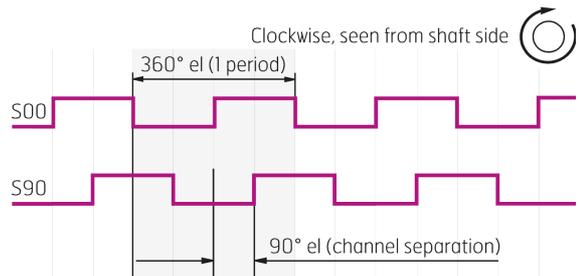|	
Polarity protected	Yes
Short circuit protected incremental outputs	Yes
Current consumption (No load)	55 mA at 24 Vdc (Max. 80 mA)
Incremental output load (max)	± 40 mA
Output frequency max	200 kHz
Cable length max	350 m at 100 kHz
Channel separation	90 °el ± 25 °el
Dividing error	± 50 °el

Dimensions

M3(x3)

M4(x3) depth 5

Ø50

120°

7.5°

15°

9.5±1

3.5

5

5

Ø6 g6

Ø24 h7

Ø45

Ø58

2

40±0.5

10±0.5

Pin Configuration

Function	Pin
+EV	1
0V	2
S00	3
S90	4

1 2 3 4

Output signal

Clockwise, seen from shaft side

360° el (1 period)

S00

S90

90° el (channel separation)

Order information

Part number	521595-04

LEINE LINDE