Encoder model

XSD 855

X-heavy duty Shaft encoder, Dual

- Two galvanically separated encoders (A,B) in one housing
- Shock and vibration protected
- Short-circuit protected outputs

CE

Mechanical data

Operating temperature	-20 °C...+85 °C
Ingress protection class [IEC 60529]	IP67 (IP66 at shaft inlet)
Vibration [IEC 60068-2-64]	10 g, 50-2000 Hz
Shock [IEC 60068-2-27]	100 g, 11 ms
Shaft load max (axial/radial)	500 / 1200 N
Rotational speed max	4000 rpm
Shaft material	Stainless steel
Cover material	Aluminium (anodized)
Cable gland dimension	M20 for Ø8-11 mm cables

Encoder configuration

Code key	855029490
Type	XSD
Model	855
Shaft type	Ø11 mm with key nut
Flange type	Euro-flange (B10-type)
Connecting direction	Radial

## A-Module Specification

Connection type	Screw terminals
Polarity protected	Yes
Current consumption (No load)	65 mA (Max.80 mA)
Cable length max	100 m at 100 kHz
Number of channels	6 (S00, S00\, S90, S90\, Sref, Sref\)
Channel separation	90 °el ± 25 °el
Output signal	HTL
Dividing error	± 50 °el
Incremental output load (max)	±40 mA
Output frequency max	200 kHz
Resolution	2048 ppr
Power supply	9...30 Vdc

LEINE LINDE

B-Module specification

Connection type	Screw terminals
Polarity protected	Yes
Current consumption (No load)	65 mA (Max.80 mA)
Cable length max	100 m at 100 kHz
Number of channels B	6 (S00, S00\, S90, S90\, Sref, Sref\)
Channel separation	90 °el ± 25 °el
Output signal B	HTL
Dividing error	± 50° el
Incremental output load (max)	±40 mA
Output frequency max	200 kHz
Resolution B	2048 ppr
Power supply	9...30 Vdc

Dimensions

EURO flange B10
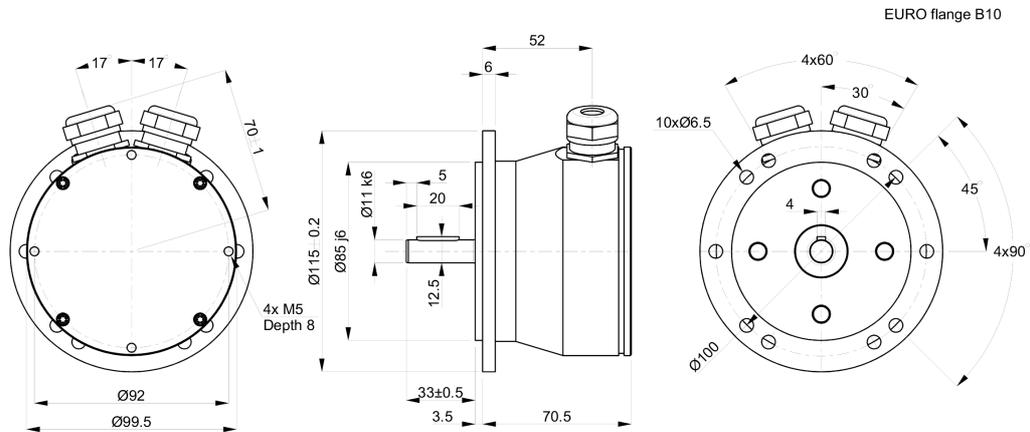
Encoder A – Pin Configuration

Function	Terminal
0 (Sref)	0
0 inverted (Sref\)	0\
+E Volt	EV
0 Volt	0V
1 (S90)	1
1 inverted (S90\)	1\
2 (S00)	2
2 inverted (S00\)	2\

Encoder B – Pin Configuration

Function	Terminal
0 (Sref)	0
0 inverted (Sref\)	0\
+E Volt	EV
0 Volt	0V
1 (S90)	1
1 inverted (S90\)	1\
2 (S00)	2
2 inverted (S00\)	2\

Output signal

Encoder A

- 360° el (1 period)
- Clockwise, seen from shaft side
- S00
- $\overline{S00}$
- S90
- $\overline{S90}$
- S_{REF}
- $\overline{S_{REF}}$
- 90° el (channel separation)

Encoder B

- 360° el (1 period)
- Clockwise, seen from shaft side
- S00
- $\overline{S00}$
- S90
- $\overline{S90}$
- S_{REF}
- $\overline{S_{REF}}$
- 90° el (channel separation)
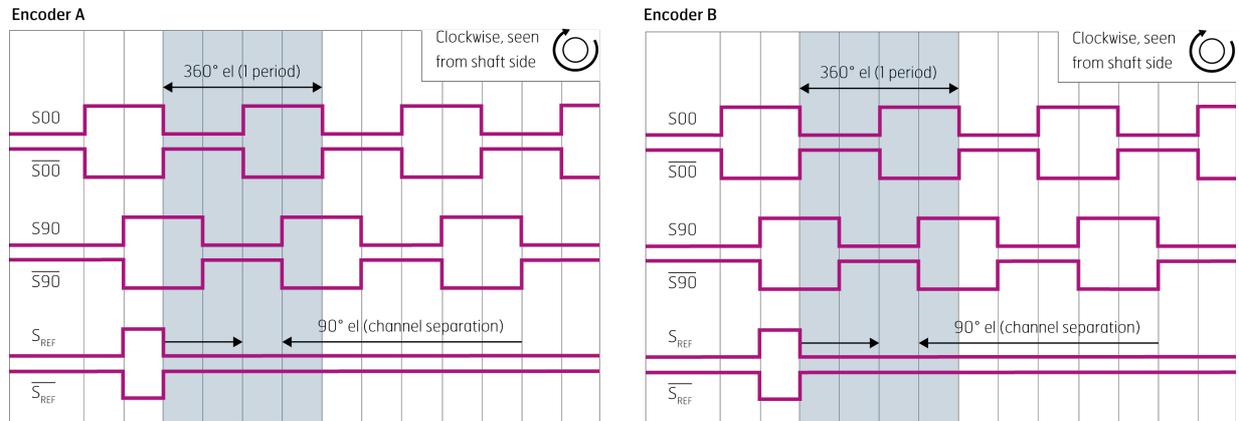
Order information

Part number	1305480-09