

**X-heavy duty Hollow shaft encoder, Dual**

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

**Mechanical data**

Operating temperature	-20 °C...+80 °C
Ingress protection class [IEC 60529]	IP66
Vibration [IEC 60068-2-64]	10 g, 50-2000 Hz
Shock [IEC 60068-2-27]	100 g, 11 ms
Shaft load max (axial/radial)	100 / 300 N
Rotational speed max	4000 rpm
Shaft material	Stainless steel with insulated peek insert
Cover material	Aluminium (anodized)
Cable gland dimension	M20 for Ø11-14 mm cables

Encoder configuration

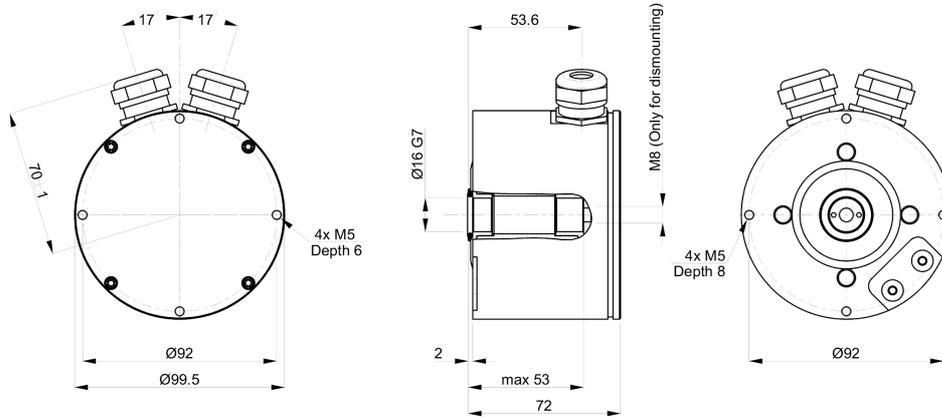
Type	XHD
Model	865 Dual
Code key	865028590
Shaft type	Ø16 mm blind hollow shaft
Flange type	86-flange
Connecting direction	Radial

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
Incremental output load (max)	±40 mA
Resolution	2048 ppr
Output frequency max	200 kHz
Number of channels	6 (S00, S00\, S90, S90\, Sref, Sref\)
Output signal	HTL
Dividing error	± 50 °el
Channel separation	90 °el ± 25 °el
Power supply	9...30 Vdc

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
Incremental output load (max)	±40 mA
Resolution B	2048 ppr
Output frequency max	200 kHz
Number of channels B	6 (S00, S00\, S90, S90\, Sref, Sref\)
Output signal B	HTL
Dividing error	± 50° el
Channel separation	90 °el ± 25 °el
Power supply	9...30 Vdc

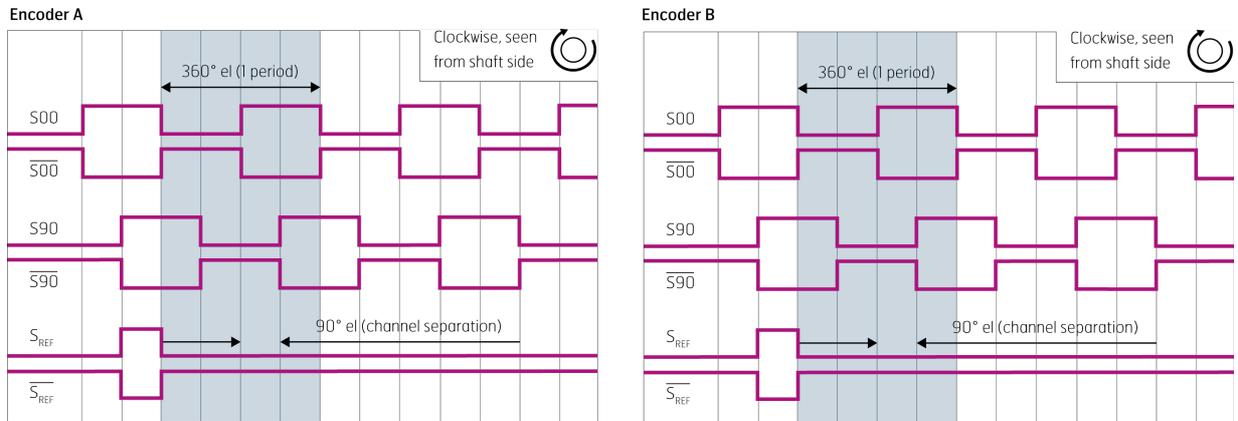
Dimensions**Encoder A - Pin Configuration**

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



Order information

Part number	1303192-01
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