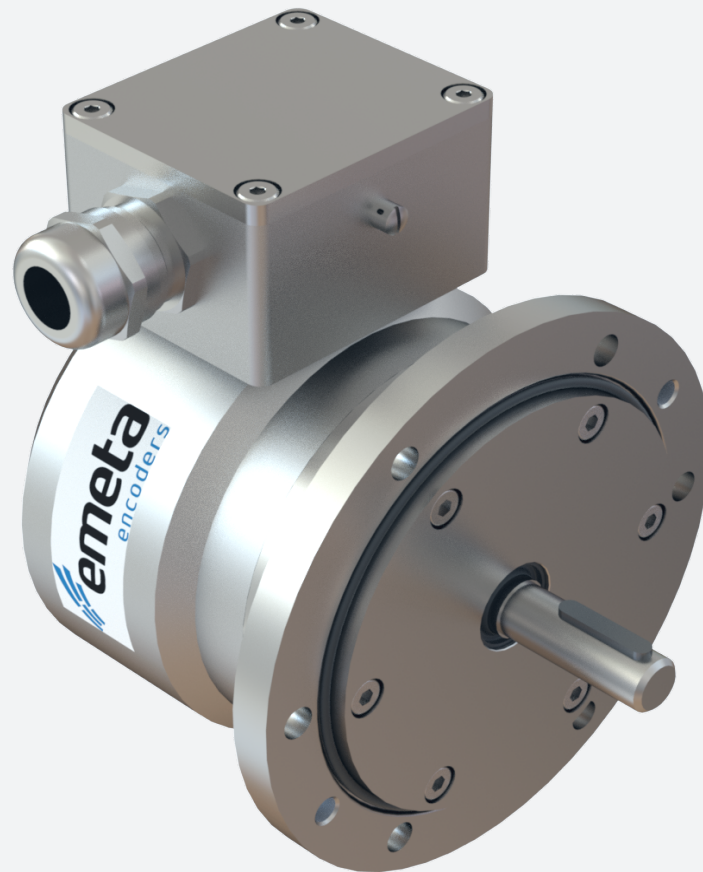


MA4101 - SERIES



HEAVY DUTY INCREMENTAL ENCODER Ø 115 MM

*Encoder with EURO-flange B10, double shaft sealing,
breathable membrane filter*

- Offshore and salt water firm
- Ø 115 mm B10 Flange
- Available in Stainless steel AISI 316 or Anodized aluminium
- Ø 11 mm shaft with key, stainless steel 1.4057
- Enlarged sturdy bearings
- Short circuit & reversed polarity proof
- Dust and splash proof IP67
- Breathable membrane filter (Double on Terminal box)
- Double shaft seal with protective lip
- Mechanical locking
- Standard 5-30 Vdc power supply, 300 kHz
2 square wave signals & marker pulse
Inverted signals with power SENSE lines

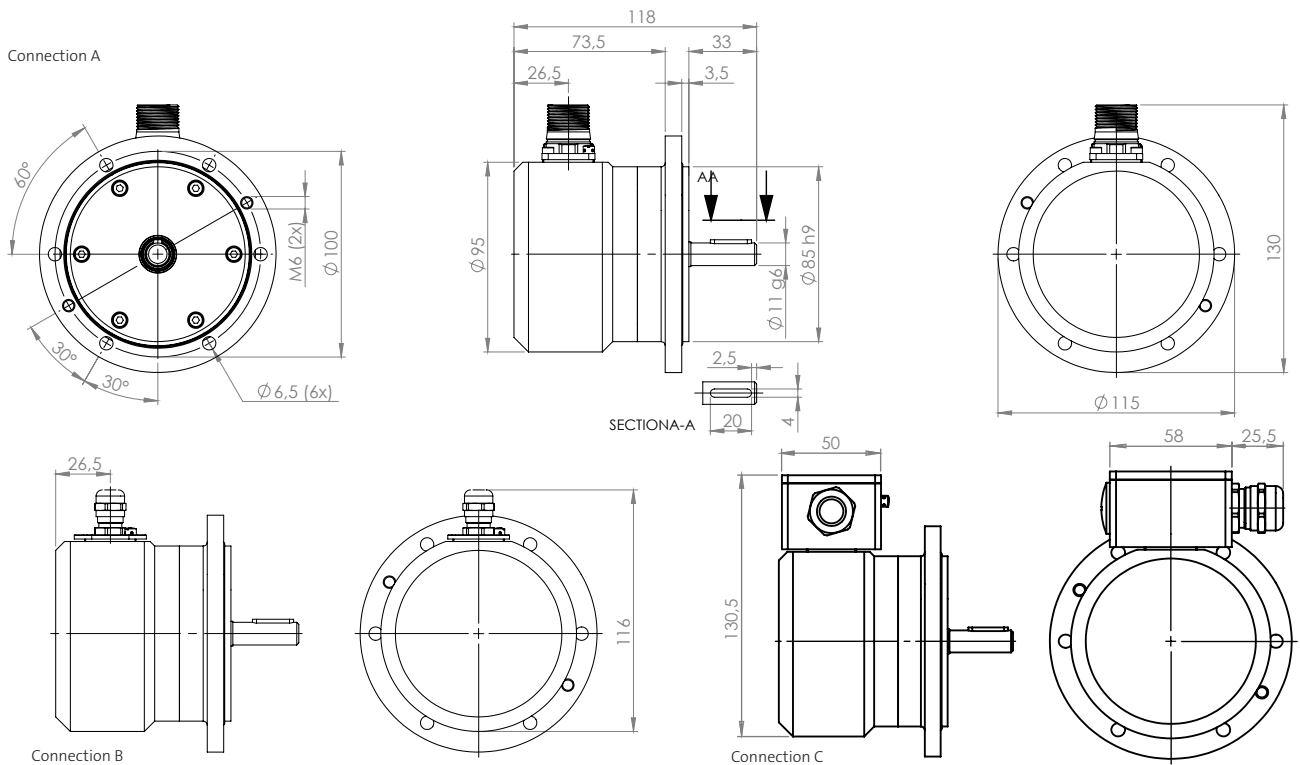


*Flexible and durable
encoder for demanding
applications*

UL File E342441



Conforms to european EMC directive
89/336/EEC standards:
EN61000-6-4 emission in industrial environments
EN61000-6-2 immunity in industrial environments

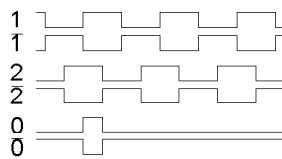


ELECTRICAL SPECIFICATION

Electronic option	T (TTL)	H (HTL)
Supply voltage	5 Vdc	5–30 Vdc (SELV)
Current consumption	Max 40 mA without load	
Output circuit	Linedriver RS422A compatible	
Low level output volt.	Max <0,5 V at 20 mA load and 20°C	
High level output volt.	Min >Vcc-1V at 20mA load and 20°C	
Short circuit protected	Yes	
Polarity protected	Yes	
Transient protected	Yes	
Max load	70 mA	

OUTPUT SIGNALS

CCW rotation view
from shaft end



SIGNAL ACCURACY

Dividing error max	± 50 el°
Channel separation	90 ± 20 el°
Max frequency	300 kHz
Operating temperature	-40° .. + 80°C

MECHANICAL SPECIFICATION

Housing	Stainless steel AISI 316
Housing	Aluminium AW6026 anodized
Shaft	Stainless steel 1.4057
Sealing	IP67 dust and splash proof
Bearings	Permanently greased
Bearing load at	1 000 rpm
Radial	<350 N
Axial	<250 N
Max rpm	12 000 rpm
Vibration	20g 20-2000Hz
Shock	200g at 11 ms
Weight	3,6 kg (AISI316), 1,5 kg (Aluminium)

CONNECTION TYPE

A	Radial 12-pin M23 Male Connector, CCW
B	Radial cable, 5m length
C	Terminal box with cable gland for $\phi 6$ - $\phi 12$ mm

FUNCTION

Signal	A (Pin)	B (Color)	C (Terminal)
1	5	Yellow	4
2	8	Green	6
0	3	Brown	8
1 inverted	6	Gray	5
2 inverted	1	White	7
0 inverted	4	Violet	9
+V	12	Red	1
0 V	10	Blue	2
+V sense	2	-	-
0V sense	11	-	-
Gnd	Chassis	Screen	Chassis

ORDERING CODE

Model	MA4101 - SA - H1024
Material	A = Aluminium S = Stainless
Connection type	A = 12 pin M23 B = Cable 5m C = Terminal box
Electrical option	T = TTL H = HTL
Pulserate 1-4096	



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