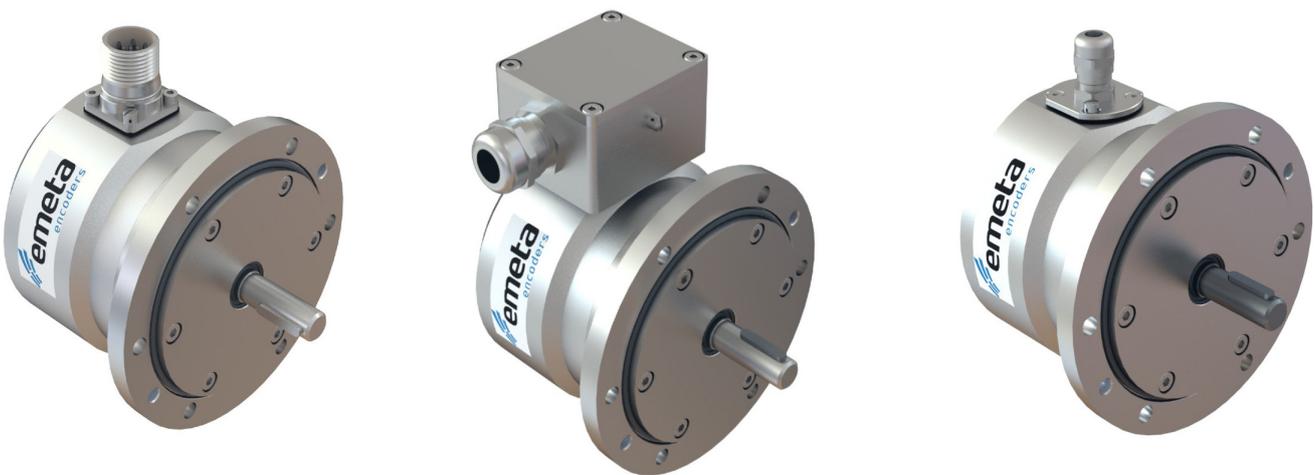


PRODUCT INTRODUCTION

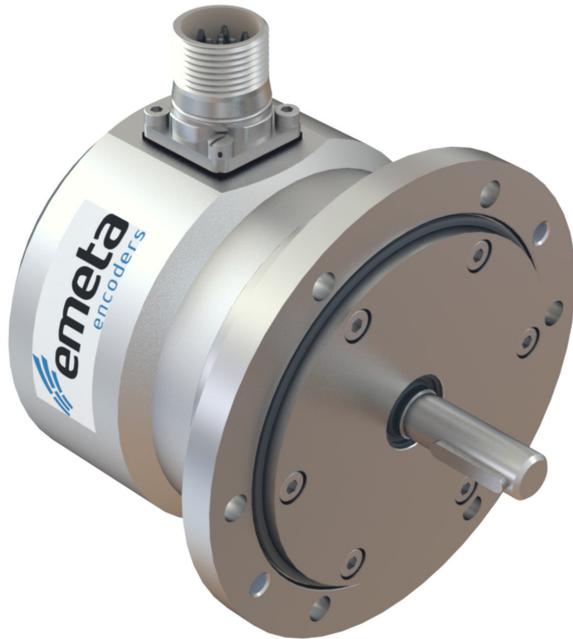


MA4301 Heavy Duty Encoder

A new series of SSI-absolute encoders for harsh and demanding environments.

- Stainless steel ASI316 or
- Anodized aluminium
- IP67
- Offshore and salt water firm
- Breathable membrane
- Double shaft seal arrangement

PRODUCT INTRODUCTION



MA4301 with 12pin M23 Male Connector

MA4301

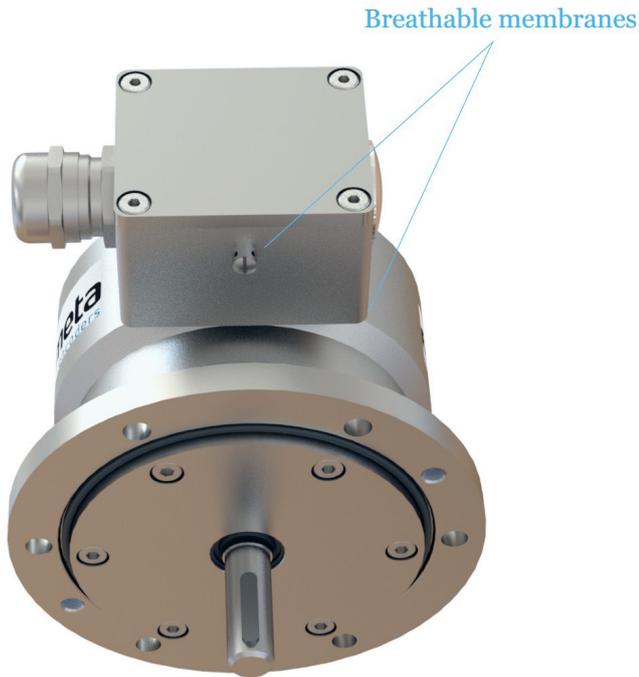
Heavy Duty Absolute Encoder

MADE FOR USE IN HARSH ENVIRONMENTS

This series of absolute encoders from Emeta is designed for harsh and demanding environments. With features such as double shaft seal, breathable membrane filter and mechanical locking this encoder will withstand even the harshest environments.

The encoder is available in an anodized aluminium or stainless steel AISI 316 housing. The encoder comes with 115mm B10 mounting flange and \varnothing 11mm solid shaft with key-way to prevent slip.

PRODUCT INTRODUCTION



MA4301 with Terminal Box



MA4301 with 12-pin M23 Male Connector

MA4301

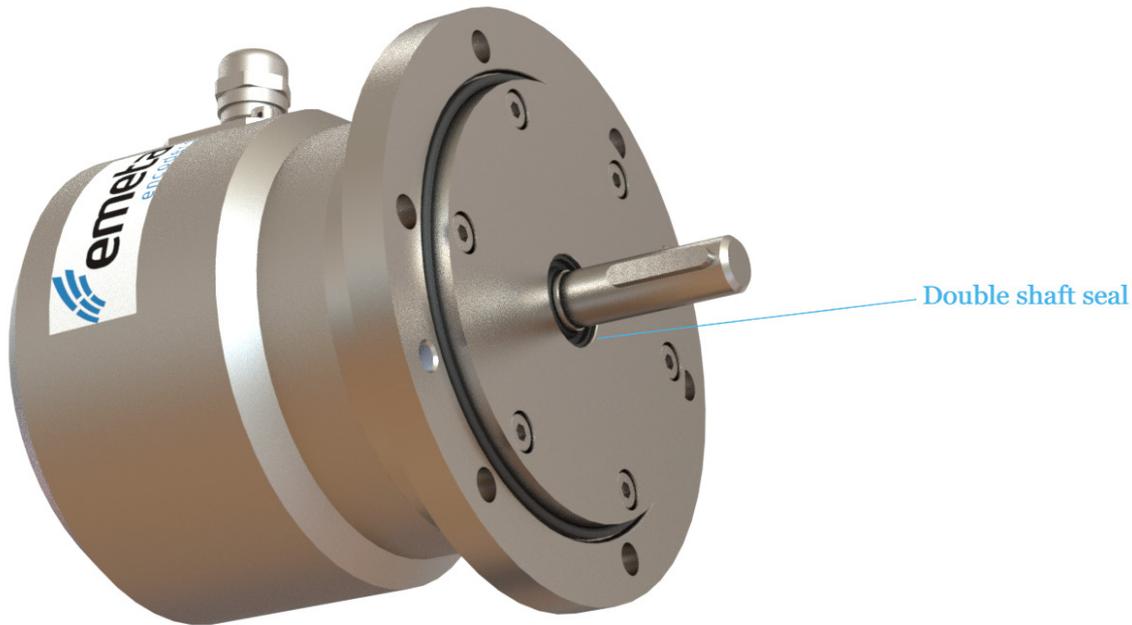
Heavy Duty Absolute Encoder

BREATHABLE MEMBRANE FILTER

Located on the terminal box in the housing under a ventilated screw and under the bottom of the terminal box the membrane filters acts as a vent, allowing airflow and at the same time prevents condensation due to fluctuations in temperature. The membrane filters are incorporated in all of Emetas terminal boxes used in rough environments to ensure durability.

On the cable version and 12-pin M23 male connector version the breathable membrane is located under a ventilated screw on the connector. Acting as a vent for the housing.

PRODUCT INTRODUCTION



MA4301 with Radial Cable

MA4301

Heavy Duty Absolute Encoder

DOUBLE SHAFT SEAL ARRANGEMENT

Through extensive research and development the MA4301 has been incorporated with the latest features to benefit the usage in harsh environments. Focusing on key aspects to ensure durability.

One of these features include the shaft protection. The rotary shaft protection seal arrangement consists of 2 shaft sealings with protective lip. The sealings ensure protection against dust, moisture, water and other debris from entering via the shaft. Making the encoder protected at high standard.

PRODUCT INTRODUCTION



MA4301 with Terminal Box (Option C)



MA4301 with Radial Cable (Option B)



MA4301 with 12-pin M23 Male Connector (Option A)

MA4301

Heavy Duty Absolute Encoder

CONNECTION TYPES

The MA4301-Series can be supplied with 3 types of connections suitable for your application type.

A- Radial 12-pin M23 Male Connector, CW

B- Radial cable with required length

C- Terminal box with cable gland for $\varnothing 6\text{-}\varnothing 12\text{mm}$

PRODUCT INTRODUCTION



MA4301 with Terminal Box

MA4301

Heavy Duty Absolute Encoder

ELECTRICAL SPECIFICATIONS

This absolute encoder offers a resolution up to 16 bit. For the full electrical specification please view the MA4301 data sheet.

Supply Voltage	4,5–30 VDC (SELV)
Clock Input	RS-422 Compatible via Optocoupler
Clock Frequency 1	100 kHz to 2MHz
Output Circuit	Linedriver RS422A compatible Resolution Singleturn 12, 13 or 16 bit
Revolutions	Multiturn 12 or 14 bit
Multiturn Technology	Mechanical Gear

PRODUCT INTRODUCTION



Customer satisfaction

We aim to please our customers and their needs. We offer our support regarding your Emeta products during the lifespan of the product. We at Emeta strive to have a close relationship with our customers and are happy to help with new projects. Most of our encoders can be customized upon request so if you have special requirements feel free to contact us!

Emeta Encoders

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