

DATA SHEET

TMI-Orion Dynamics

Electrical Rotary Actuator



Underwater Electrical Rotary Actuator

The Electrical Rotary Actuator (ERA) is a high-performance, compact and reliable actuator designed for underwater operation down to a depth of 600 meters. The ERA offers intuitive programmable position controls and embedded controllers. This actuator is also equipped with an additional connector to chain with other actuators or to add modules (camera, projector...). It is adapted to numerous operations and can be mounted on various systems.

Applications include:

- Manipulator component
- Underwater motion system (camera, projector, pan and tilt, sonar, thruster...)
- Ballast correction system
- Subaquatic tooling / ROV equipment
- For scientific community - Environment - Energy – Aquaculture - Defense...

SPECIAL FEATURES

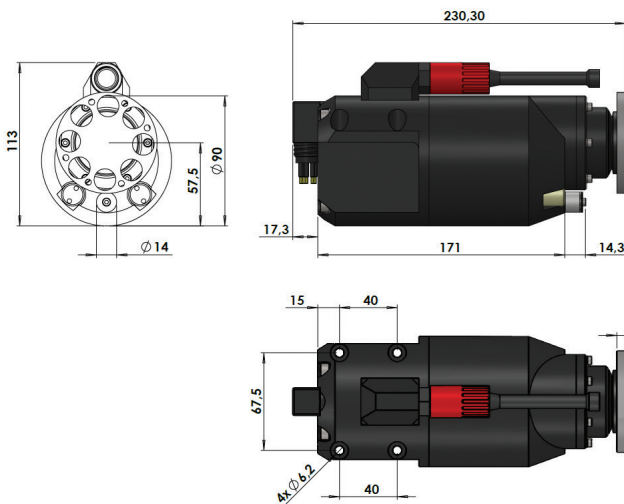
- Ideal for applications where precision and motion control are needed
- Position feedback in velocity and position mode
- 1 optional connector available for add-on capacity (additional actuator, camera, LED spot...)
- With embedded electronic controller (no external POD required)

TECHNICAL SPECIFICATIONS



Material	Hard anodized aluminum (body) Stainless steel (plate)
Depth rating	600 m (air filled)
Dimensions	L.230 mm x H.113 mm x W.90 mm
Weight	2.25 kg in air 1.2 kg in fresh water
Operating temperature	From -10°C to +60°C
Storage temperature	From -20°C to +60°C
Connection (input)	SubConn micro series 8 male connectors MCBH8M
Connection (output)	SubConn micro series 8 female connectors MCBH8F (optional)
Power supply	9-24 VDC. The characteristics are done with 24 VDC nominal (40 W max.)
Serial control bus	RS485 half-duplex (115 200 bauds 8-N-1)
Rotating speed	8 seconds per 360° (adjustable)
Rotating torque	16 N.m (max.)
Resolution	0.2° (hall effect feedback) Option : Encoder feedback
Cathodic protection	Sacrificial anode

Dimensions (in millimeters)



(mm)

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SOFTWARE AND RELATED PRODUCTS

Monitoring software

The Electrical Rotary Actuator comes with a monitoring software (under Windows®).

Other products

Please visit our website for more information.

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