

DATA SHEET

TMI-Orion Dynamics

Electrical Rotary & Linear Actuator



Underwater Electrical Rotary & Linear Actuator

The Electrical Rotary & Linear Actuator (ERLA) is a high-performance, compact and reliable actuator designed for underwater operation down to a depth of 600 meters. The ERLA 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
- Sampling system
- ROV locking system
- Subaquatic tooling / ROV equipment
- For scientific community - Environment - Energy – Aquaculture...

SPECIAL FEATURES

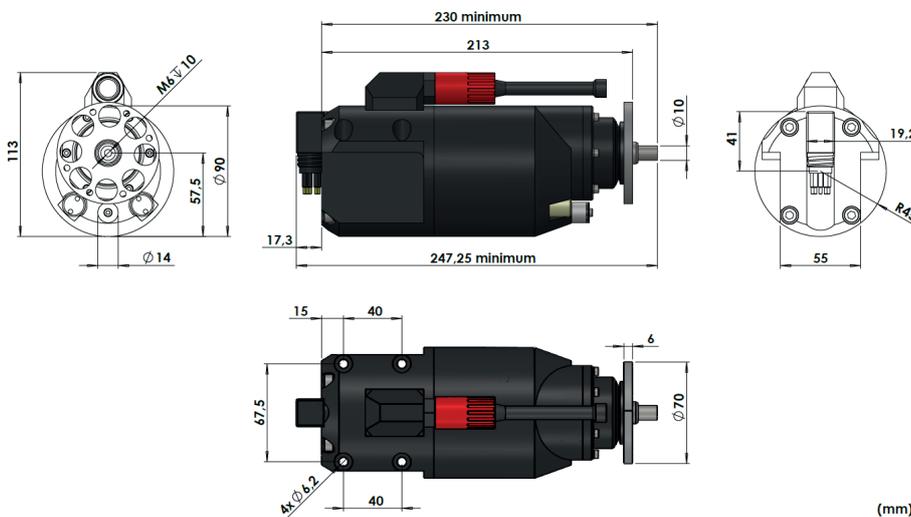
- Ideal for applications with large thrusts where precision and motion control are needed.
- Position feedback in velocity and position mode
- 1 connector available for add-on capacity (additional actuator, camera, LED spot...)
- With embedded electronic controller (no external POD required)



TECHNICAL SPECIFICATIONS

Material	Hard anodized aluminum (body), Stainless steel (rod)
Depth rating	600 m (air filled)
Dimensions	L.248 mm x H.113 mm x W.90 mm
Range	18 mm maximum (adjustable)
Weight	2.8 kg in air 1.75 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
Power supply	9-24 VDC. The characteristics are done with 24 VDC nominal (65 W max.)
Serial control bus	RS485 half-duplex (115 200 bauds 8-N-1)
Thrust capability	80 kg (max.)
Rotating speed	8 seconds per 360° (adjustable)
Rotating torque	16 N.m (max.)
Cathodic protection	Sacrificial anode

Dimensions (in millimeters)



Electrical Rotary & Linear
mounted with jaws

(mm)

SOFTWARE AND RELATED PRODUCTS

Monitoring software

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

Other products

Please visit our website for more information.

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