



L01 Azimuth, Thruster and Propulsion control

lilaas[®]



L01, the multifunction lever for azimuth, thruster and propulsion controls

Compact, rugged and combining multifunction control simply and safely for all types of ship.

L01 with built in el-shaft system:

- Software solutions and a built in TFT LCD digital display for position of the lever and feedback information from the ship's systems
- Various parameter settings: FWD or AFT, CAN, alarm, display, networks, feedback etc.
- Capacitive touch switches on the display available for menu operations and/or for custom functionality.
- Integrated el motors and in house developed electronic shaft system within the lever. No more need for big expensive external boxes.
- New cost-effective force feedback solution that does not use electric motors.



• 4-20 mA feedback signals enable new functionalities and use of a control lever. Actual and visual position or value of selected ship systems may be visual on the 2,4 TFT LCD display. This eliminates need for additional indicators.

• Small touch-free magnetic sensors instead of potentiometers reduce need for maintenance and enabling a more compact design. Redundant output is standard.

• The electronic L01 lever will communicate either via CANopen protocol or standard analogue signals or a combination of both.

• The capacitive touch switches may eliminate need for separate hardware switched on or near the lever.

• Electronic detents and brake settings

• Complementary user- and CANopen manuals available

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L01 Mechanical Version

- Available as azimuth, thruster and propulsion control lever with laser engraved and LED illuminated scale.
- New mechanics require only a minimum installation depth: Azimuth 98mm. Thruster/Propulsion 71mm.
- Redundant magnetic sensors on all axes.



General technical description L01

Power Supply: 24V DC
 Power supply: 5V DC (sensors) mechanical version
 Panel plate and housing: Coated aluminium
 Handle: Aluminium and moulded Arnitel
 Handle movement azimuth: +/- 60° and 360°
 Handle movement thrust/propulsion: +/- 60°
 Scale: 2,4" TC LCD display (with electronics)
 Enclosure: IP66
 Standard sensor: Magnetic 5V DC
 Isolated analog output and backup output.

Type approval L01: EN/IEC 60945, ABS, BV, DNV GL, KR, LR, NK, RINA, PRS, RS, CRS

• Capacitive touch switches for custom functionality and menu operations available on all electronic versions.

Options with electronics:

- Display graphics
- Digital isolated input
- Force feedback
- El motor
- Integrated el-shaft system
- Colours, logo

Options mechanical version:

- Built-in switches
- Mechanical detents
- Limited deflection
- Customized scale
- El motor
- Colours, Logo



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Lilaas AS is a world leading manufacturer of various types of control levers and joysticks for marine and offshore use.

As a result of unique design, top-grade materials and thorough test procedures, we produce products of high quality that require a minimum of service and maintenance.

The control units from Lilaas include levers, controlling mechanisms and accompanying electronics.

The products range from simple, one-axis control levers in different sizes, hand wheels and rudder controls to azimuth control units and multi-axis joysticks.

All units may be delivered with motors on all axes and with several optional features. The products comply with stringent certification requirements.

All kinds of vessels, from small fishing boats and ferries, via supply vessels to large tankers and cruise ships may be manoeuvred using control levers from Lilaas.

The products are certified by DNV GL and the company is certified under NS-EN ISO 9001:2008.

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