

## Lilaas azimuth control lever – LF70

Lilaas offers a wide range of high quality type approved azimuth control levers. Below you will find a simple technical description of various basic LF70 models.



### Specification details basic version (forward version illustrated above.)

|                                                                          |                                                                              |
|--------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Materials / Finish                                                       | Steel A2, Al, POM / Alodine, powder coating                                  |
| Weight (approximately)                                                   | 2,2 kg                                                                       |
| RPM movement, handle / electrical                                        | $\pm 60^\circ$ / $245^\circ$                                                 |
| Azimuth movement, handle / electrical                                    | $360^\circ$ / $360^\circ$                                                    |
| Potentiometers                                                           | RPM: Single 5 k $\Omega$ , linear Azimuth: Single 5 k $\Omega$ , sine/cosine |
| Termination                                                              | 16 pins contact with plug                                                    |
| IP grade                                                                 | IP66                                                                         |
| Scales with integrated illumination                                      | As above, RPM scale: FWD, AFT.                                               |
| Detents                                                                  | RPM: Zero. Azimuth: Every $90^\circ$                                         |
| Type approval: EN/IEC 60945, ABS, BV, DNV, GL, KR, LR, NK, RINA, RS, CRS |                                                                              |
| More info and custom specification see page 2 and 3)                     |                                                                              |

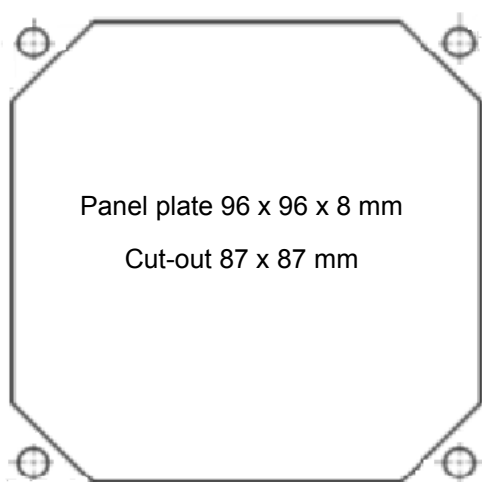
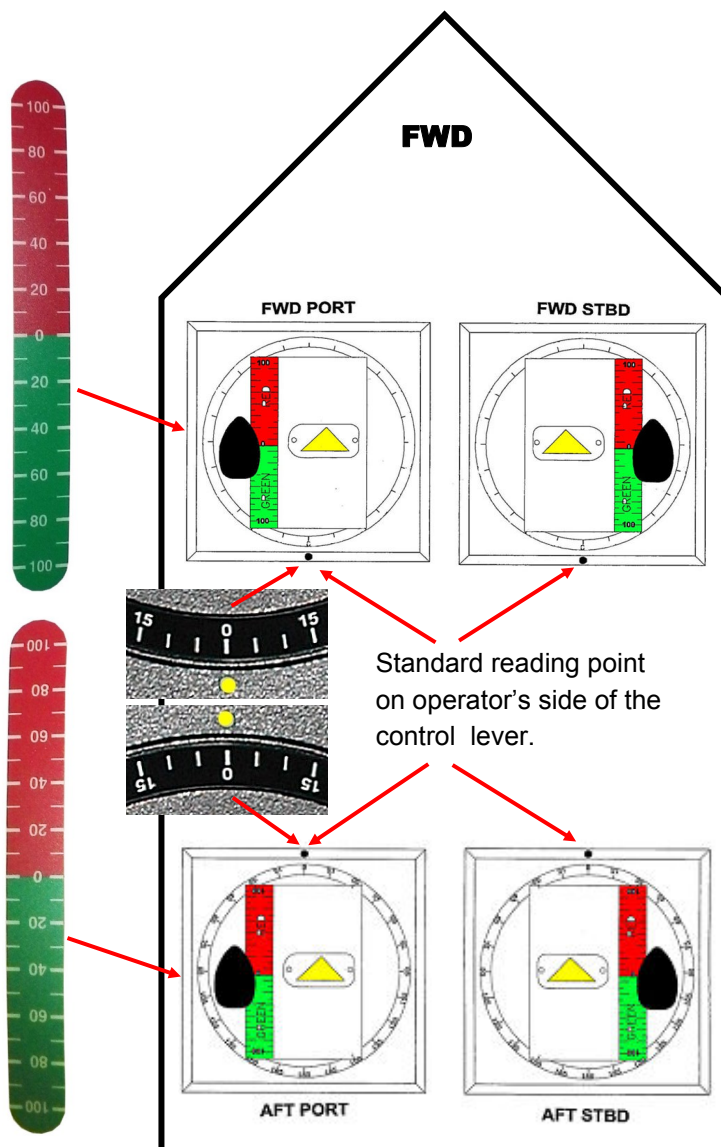
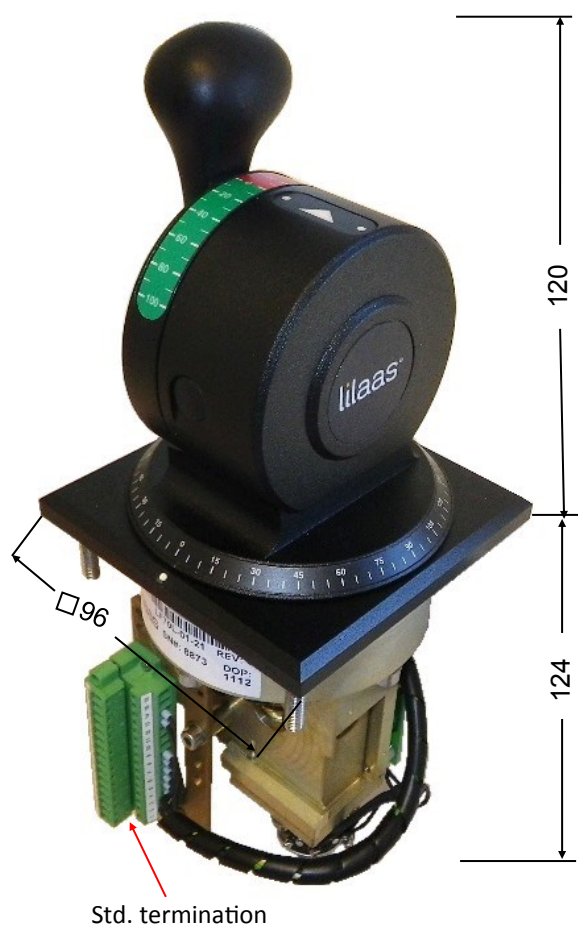
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Certified according to NS-EN ISO 9001:2008

For more info, see our website <http://www.lilaas.no/>

The potentiometer is of a plastic conductive type measuring 5 k $\Omega$  between the end points. The potentiometer must be used as a voltage divider and not as a rheostat. Wiper current must not exceed 1 mA.

## Lilaas LF70 lay out and basic models



Lilaas LF70 basic models (sketch above):

FWD port: LF70L-01-21

FWD stbd: LF70R-01-21

AFT port: LF70R-01-210

AFT stbd: LF70L-01-114

## Lilaas LF70 basic models

|                                                                                   |                                                                                   |                                                                                    |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| FWD port: LF70L-01-21                                                             | FWD stdb: LF70R-01-21                                                             | AFT port: LF70R-01-210                                                             | AFT stdb: LF70L-01-114                                                              |
|  |  |  |  |

Do you need an extended version? To simplify the customization process, please fill in your request to Lilaas in the *Spec your request* form below and forward it to: [sales@lilaas.no](mailto:sales@lilaas.no)

We will revert with price and availability.

| Spec your request               |                          |             |
|---------------------------------|--------------------------|-------------|
| Options, other than standard    | Yes                      | Description |
| Panel plate                     | <input type="checkbox"/> |             |
| Handle                          | <input type="checkbox"/> |             |
| Potentiometer                   | <input type="checkbox"/> |             |
| RPM limited handle movement     | <input type="checkbox"/> |             |
| Azimuth limited handle movement | <input type="checkbox"/> |             |
| RPM scale                       | <input type="checkbox"/> |             |
| Azimuth scale                   | <input type="checkbox"/> |             |
| Detents                         | <input type="checkbox"/> |             |
| Micro switch                    | <input type="checkbox"/> |             |
| Termination                     | <input type="checkbox"/> |             |
| Motorized                       | <input type="checkbox"/> |             |
| EI shaft                        | <input type="checkbox"/> |             |
| Other                           | <input type="checkbox"/> |             |
|                                 |                          |             |
|                                 |                          |             |

|                     |                 |
|---------------------|-----------------|
| Specification from: | Contact person: |
| Company:            | E-mail:         |
|                     | Telephone:      |



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 requires a minimum of service and maintenance.

The control units from Lilaas include levers, controlling mechanism 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 motorised 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 by control levers from Lilaas.

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

### **Lilaas AS**

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