

INSTALLATION MANUAL

FlarmACL

Version 1.16



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1 Important Notices

The LXNAV FlarmACL system is designed for VFR use only. All information is presented for reference only. It is ultimately the pilot's responsibility to ensure the aircraft is being flown in accordance with the manufacturer's aircraft flight manual. The FlarmACL must be installed in accordance with applicable airworthiness standards according to the country of registration of the aircraft.

Information in this document is subject to change without notice. LXNAV reserves the right to change or improve their products and to make changes in the content of this material without obligation to notify any person or organisation of such changes or improvements.



A Yellow triangle is shown for parts of the manual which should be read carefully and are important for operating the LXNAV FlarmACL system.



Notes with a red triangle describe procedures that are critical and may result in loss of data or any other critical situation.



A bulb icon is shown when a useful hint is provided to the reader.

1.1 Limited Warranty

This LXNAV FlarmACL product is warranted to be free from defects in materials or workmanship for two years from the date of purchase. Within this period, LXNAV will, at its sole option, repair or replace any components that fail in normal use. Such repairs or replacement will be made at no charge to the customer for parts and labour, the customer shall be responsible for any transportation cost. This warranty does not cover failures due to abuse, misuse, accident, or unauthorised alterations or repairs.

THE WARRANTIES AND REMEDIES CONTAINED HEREIN ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED OR STATUTORY, INCLUDING ANY LIABILITY ARISING UNDER ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, STATUTORY OR OTHERWISE. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, WHICH MAY VARY FROM STATE TO STATE.

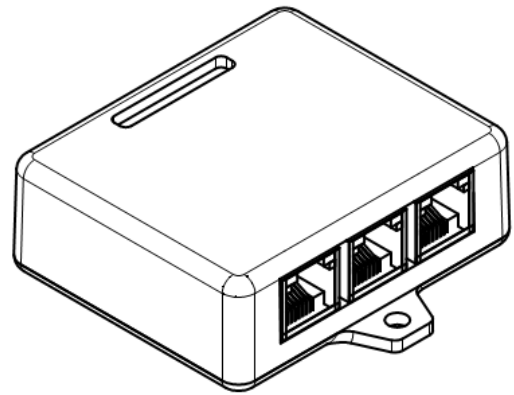
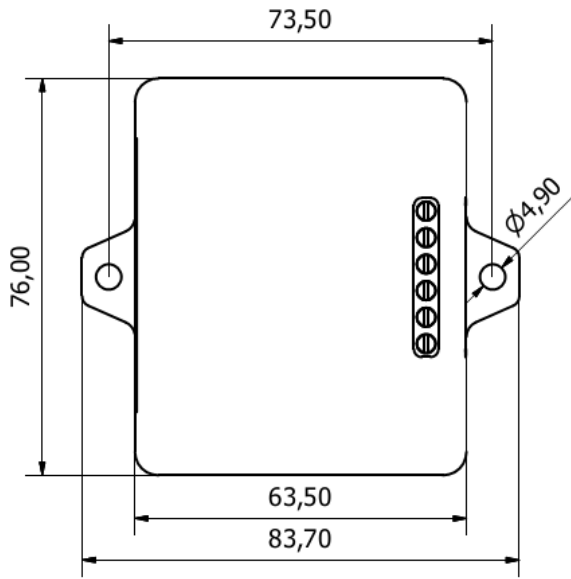
IN NO EVENT SHALL LXNAV BE LIABLE FOR ANY INCIDENTAL, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM THE USE, MISUSE, OR INABILITY TO USE THIS PRODUCT OR FROM DEFECTS IN THE PRODUCT. Some states do not allow the exclusion of incidental or consequential damages, so the above limitations may not apply to you. LXNAV retains the exclusive right to repair or replace the unit or software, or to offer a full refund of the purchase price, at its sole discretion. SUCH REMEDY SHALL BE YOUR SOLE AND EXCLUSIVE REMEDY FOR ANY BREACH OF WARRANTY.

To obtain warranty service, contact your local LXNAV dealer or contact LXNAV directly.

2 Packing list

- LXNAV FlarmACL
- FlarmACL wiring harness

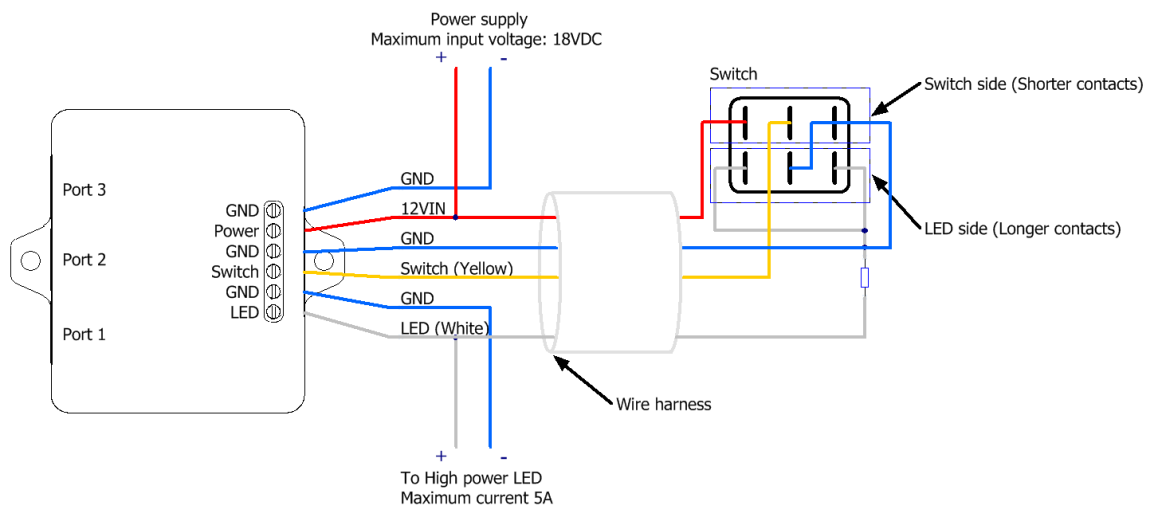
3 Installation

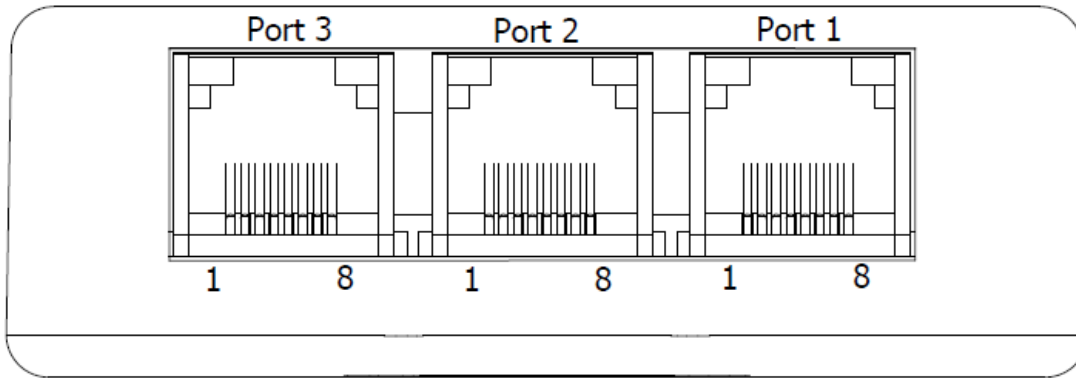


All dimensions in mm

3.1 Connection LXNAV FlarmACL

3.1.1 Wiring





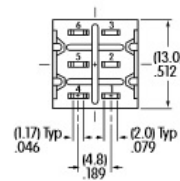
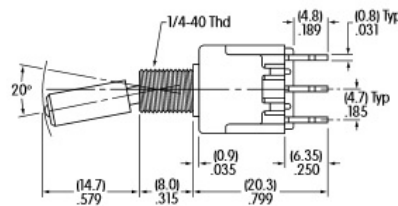
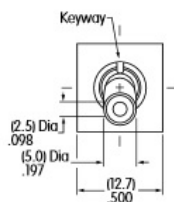
FfarmACL connects together Pin 1 from Port 1-3, Pin 2 from Port 1-3, etc. Pin names are:

- 1- +12V
- 2- +12V
- 3- +3,3V (Ffarm displays)
- 4- GND
- 5- Data Input
- 6- Data Output
- 7- GND
- 8- GND



12V Power pins on PORT1,2,3 are not physically connected to 12V IN from main connector.

3.1.2 Switch description



3.1.3 Unit operation

The FfarmACL is powered via an external power connection (Screw terminal pin labelled Power). Its own current draw is appr. 30 mA. The device listens to any Ffarm traffic (fixed baudrate of 19200 – newer versions (from July 2018) have an automatic baudrate detection from 4800 to 115200bps) on any of the three RJ45 connectors and switches on the connected strobe light via an internal solid-state switch (Screw terminal pin labelled LED).

RJ45 connectors also act as a Ffarm splitter device.

Control is done via the three-position switch with an integrated LED indicator:

- Top position: Output is switched ON, LED indicator is always ON and green

- Middle position: Output is switched OFF and disabled, LED indicator always OFF
- Bottom position: Output is switched ON, the LED indicator is ON only when an urgent alarm is detected, and red when this happens. If no alarm is issued for 3 seconds the output is switched OFF.

4 Automatic triggering of FlarmACL

The FlarmACL will be automatically triggered under 2 conditions.

Condition 1:

- If the switch is set to AUTO and if any kind of flarm alarm is active

Condition 2:

- If the switch is set to AUTO and a plane is closer than 1000m.

5 Revision history

Rev	Date	Comment
1	March 2018	Complete revision of this manual
2	August 2018	English corrected by JR
3	July 2020	Updated chapter 3.1.3
4	November 2020	Updated chapter 3.1.1
5	February 2021	Style update
6	April 2021	Updated chapter 3.1.1

The pilot's choice



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