FlarmACL

Installation manual

Version 1.15
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.

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⚠️ 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.

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

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2 Packing list

- LXNAV FlarmACL
- FlarmACL wiring harness
3 Installation

3.1 Connection LXNAV FlarmACL

3.1.1 Wiring

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All dimensions in mm
FlarmACL 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 (Flarm displays)  
4- GND  
5- Data Input (Output)  
6- Data Output (Input)  
7- GND  
8- GND

3.1.2 Switch description

3.1.3 Unit operation

The FlarmACL 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 Flarm traffic (fixed baudrate of 19200 – newer versions have an automatic baudrate detection) 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 Flarm 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

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
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<tbody>
<tr>
<td>March 2018</td>
<td>Complete revision of this manual</td>
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<tr>
<td>August 2018</td>
<td>English corrected by J R</td>
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