

# 11 CIRCUIT LAMP TEST AND FAULT DETECT MODULE

The ECU-LT04 incorporates 33 diodes into a lamp test circuit and fault detect matrix. All lamp test circuits have blocking diodes to prevent backfeed to input signal circuits.

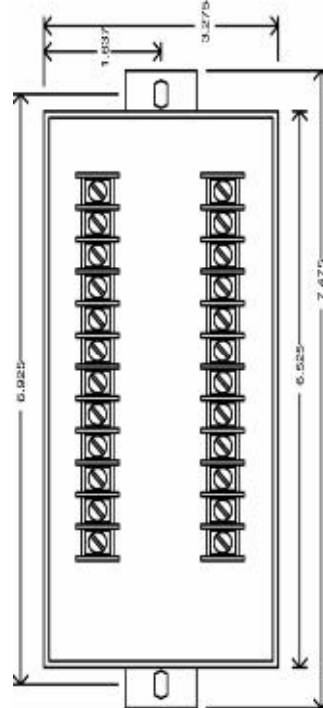
**ECU® -LTO4**

**ONE VERSION FOR  
12 AND 24 VDC**

**APPLICATIONS:** Annunciator Panels, Generator Control Panels and System Monitors

## FEATURES:

- Pre-packaged lamp test configuration
- Anti-backfeed circuits on lamp test
- Pre-packaged fault detect circuit matrix
- Standard package size and mounting
- Epoxy molded for field reliability
- Easy to use and install



## ECU®-LTO4 LARGE LAMP COUNT, LAMP TEST AND FAULT DETECT

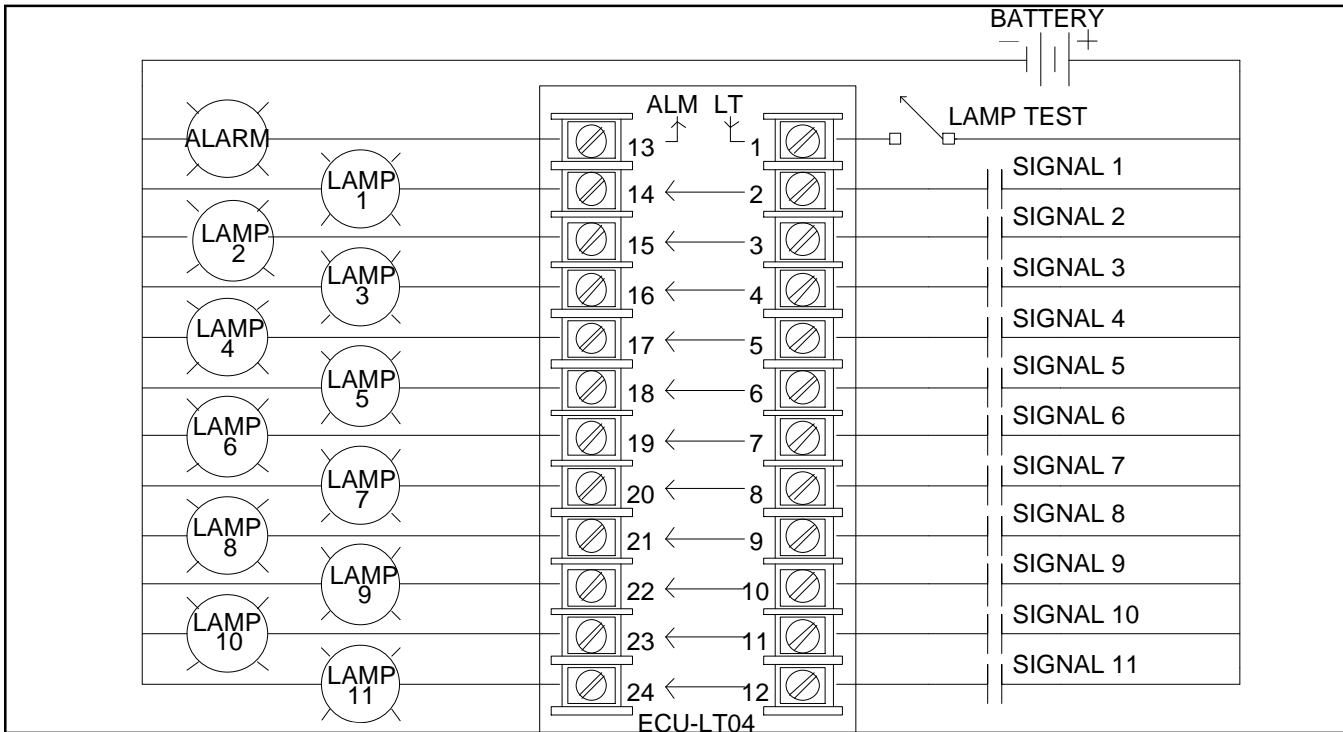
The ECU-LT04 is meant for large lamp count situations such as 10 fault annunciators. The pre-packaged nature of the module allows compact mounting between lamp rows when used on annunciator faceplates.

Electronically the circuit allows for 11 inputs feeding 11 lamps. When the lamp test function is actuated voltage is placed on all lamps connected to module but not back to signal inputs due to anti-backfeed circuits.

The alarm output will have voltage on it if any input is energized. It does not have voltage on it when lamp test is activated thus avoiding nuisance alarms.

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**SAMPLE ECU®-LTO4 APPLICATION:  
SIMPLE 11 FAULT ANNUNCIATOR CIRCUIT**



This example shows the ease of use of the ECU-LT04 to set up a simple 11 fault annunciator. If any of the inputs signals are applied, the respective lamp will light and the alarm lamp will light. The input signals can be generated via contact closures as shown or from DC signals from engine controls or other control modules eliminating the need for dry contacts from those systems.

If the lamp test switch is closed, lamps 1 through 11 will be illuminated. The alarm lamp will not be activated by lamp test thus avoiding false alarms.

**SPECIFICATIONS: 1 AMP DC MAX LOAD  
50 VDC MAX INPUT VOLTAGE**

**ECU®-LTO4 TERMINAL OUT**

**SEE  
EXAMPLE**

**PHYSICAL DIMENSIONS**

Mounting holes will accept No. 8 or No. 6 screws.  
All dimensions in inches.

**ORDERING INFORMATION:  
ORDER BY SPECIFYING: ECU® -LTO4**

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