

## Model ALARM INTERFACE Installation & Operations Manual

### Product Description

The ALARM INTERFACE allows an emergency system to trigger a pre-recorded emergency DMX512 backup look. In normal operation, the ALARM INTERFACE passes DMX512 signals untouched. While triggered, the incoming DMX signal is disconnected and the ALARM INTERFACE sends the emergency backup look. The emergency backup look can be set to any lighting levels required by the installer.

### Environmental

Operating temperature: 0-40° C  
Operating humidity: 10-90% non-condensing  
Indoor use only

### Electrical Ratings

Input: 90 - 132 VAC, 50 - 60Hz, 0.25A

### Size and Weight

-JBOX version: 12"H x 4"D x 12"W NEMA1 electrical enclosure. Knockouts on 2 surfaces. 10 pounds

-DIN version: 4.2"H x 2"D x 5.25"W, 1 pound

### Mounting

The -JBOX version of the ALARM INTERFACE enclosure can be mounted on any flat surface meeting the environmental requirements above. Conduit knockouts are provided for ease of installation of wiring.

The -DIN version of the ALARM INTERFACE can be mounted on standard DIN rail. No special accommodations are needed for cooling.

### Power Wiring

The ALARM INTERFACE is powered by 120VAC, 0.25A. Line and neutral connections are made via terminal blocks. Care must be taken to avoid routing power wiring over the circuit board or in the vicinity of low voltage wiring.

### DMX512 Wiring

The incoming DMX512 signal (from the control console) must be connected to the DMX\_IN terminal block. Connections are provided for common (C), data minus (-), and data plus (+). DMX512 cabling to the dimmers and/or fixtures must be connected to the DMX OUT terminals. Similar connections are provided.

### Alarm Closure Wiring

The CLOSURE FROM ALARM terminals must be connected to the system which will trigger the emergency condition. The closure must be a maintained form C type capable of carrying 80mA at 5VDC. While the contacts are shorted, the emergency look will be activated. While the contact closure inputs are not shorted, the incoming DMX512 signal will be passed to the output unchanged.

## Recording the Emergency Backup Look

The emergency backup look comes from the factory defaulted to all 512 channels set to full. If some other emergency backup look is required, perform the following procedure to record the new lighting levels.

- Connect a DMX512 source to the DMX INPUT.
- Set the emergency backup lighting levels using the control source just connected.
- Press the "RECORD PRESET" switch.
- The red REC/PWR LED will flash indicating that the recording process has begun.
- After about 1 second, the green REC DMX LED will turn on indicating that the ALARM INTERFACE is receiving a good DMX512 signal. The red REC/PWR LED will continue to flash.
- After another second, the green REC DMX LED will turn off and the red REC/PWR LED will turn on solid. This indicates that the emergency backup look has been recorded and that the ALARM INTERFACE has returned to normal operation.

Note 1: If the green REC DMX LED does not turn on during this process, this indicates that no valid DMX signal is being received. The recording process is aborted without changing the existing emergency backup look.

Note 2: The emergency backup look is held in non-volatile flash memory. No power or battery is required to retain the contents of the emergency backup look.

## Verifying the Emergency Backup Look

A test jumper has been provided to allow the installer to verify that the proper emergency backup look has been recorded. To verify the contents of the emergency backup look, perform the following procedure.

- Turn off the normal source of DMX512 signals. Verify that the room lighting is off.
- Move the test jumper from the NORM position to the TEST position. The jumper is located just above and between the DMX OUT and CLOSURE FROM ALARM terminal blocks.
- Verify that the room lighting goes immediately to the emergency backup look levels.
- Move the test jumper back to the NORM position.
- Verify that the normal source of DMX512 can now control the room lighting.

If the emergency backup look is not as desired, record a new look as described earlier.

## Limited Manufacturer's Warranty

Products manufactured by Doug Fleenor Design (DFD) carry a five-year parts and labor warranty against manufacturing defects. It is the customer's responsibility to return the product to DFD at the customer's expense. If covered under warranty, DFD will repair the unit and pay for return ground shipping. If a trip is necessary to the customer's site to solve a problem, the expenses of the trip must be paid by the customer.

This warranty covers manufacturing defects. It does not cover damage due to abuse, misuse, negligence, accident, alteration, or repair by other than by Doug Fleenor Design.

Most non-warranty repairs are made for a fixed \$50.00 fee, plus shipping.

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