810-3048 Light Dimming Module

Part #: 026-4215 Rev 2 Date: 01/10/2008



Overview

The CPC Light Dimming Module is used to control light dimming ballast(s). The module is approximately 3" x 5". The module uses a single 0-10V DC analog output from a MultiFlex board. The input and output voltages are listed below.

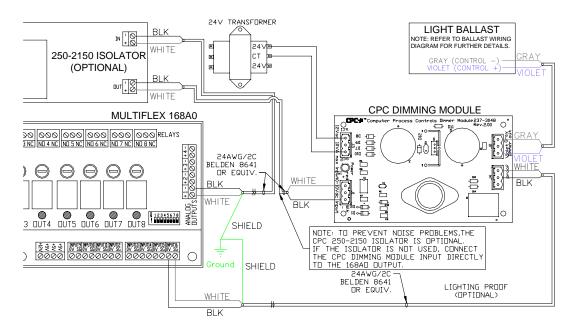
Board Input (MultiFlex)	Board Output (Light Ballast)	Light Condition
0V DC	10V DC	Full On
10V DC	0V DC	Min. On



The module has a proof output. The proof output is connected to a NC relay output. If proofing is used, the output should be connected to any available analog input on a MultiFlex board. The dip switch for the analog input should be ON.

Installation

The Light Dimming Module can be installed in any orientation. The module includes a Snap-Track. The Snap-Track should be mounted in a standard enclosure. The module requires 12VAC. Connecting the power input to the AC1 and AC2 side of a standard 24V transformer will damage the module. A center-tap 24V transformer should be used to power the module as shown in the wiring diagram.



TYPICAL LIGHT DIMMING MODULE WIRING DIAGRAM



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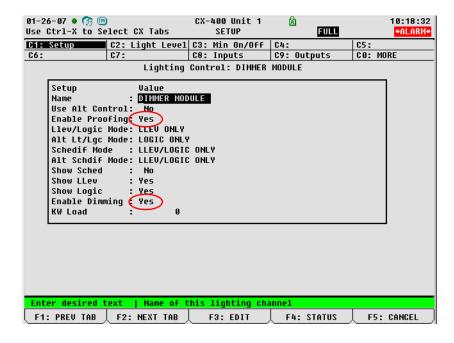


Programming

- The Light Dimming Module is configured in a Lighting Control application.
- The E2 software must be 2.40F01 or later.
- A light level sensor is required to control the light dimming.

Program the Lighting Application normally. Then, make the following additional programming changes:

- 1. Press and Log in to the E2 with Level 4 access
- 2. Press view the Lighting Summary screen. If a list of Lighting Control applications appears, highlight the one you wish to edit and press to view the C1:Setup screen.
- 3. If proofing is desired, change the *Enable Proofing* field to Yes. Change *Enable Dimming* field to Yes.





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- 4. Press F2 to view the C2: Light Level screen.
- 5. Set the values circled in Red below based on the desired lighting operation.

Dim Upper %: Light output percent at Dim LL @ Upper % light level

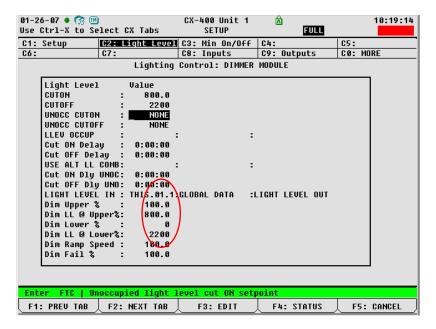
Dim LL @ Upper %: Light level for Dim Upper % output

Dim Lower %: Light output percent at Dim LL @ Lower % light level

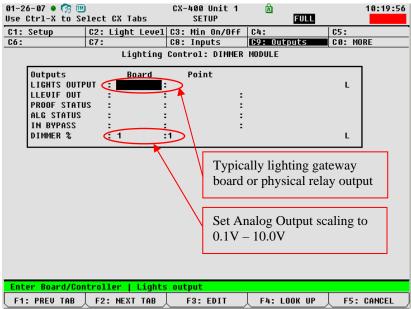
Dim LL @ **Lower** %: Light level for Dim Lower % output

Dim Ramp Speed: Ramp speed in percent change per minute.

Dim fail %: Light level output if light level sensor fails.



- 6. Press to view the C9: Outputs screen.
- 7. Assign the Dimmer % output to the MultiFlex Analog Output connected to the dimmer module.







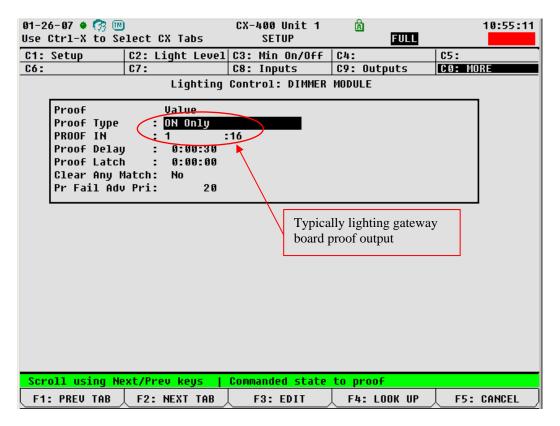
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- 8. Press F2 to view the C0: More screen.
- 9. Change the Proof Type to ON Only
- 10. Assign the Proof IN input to the MultiFlex Analog Input connected to the dimmer module.



Application Notes

- 1. Typically the physical proof output from the 810-3048 Light Dimming Module is used as an alarm from a Digital Sensor Control application in the E2 controller. A delay of 5 minutes is recommended to minimize nuisance alarms.
- 2. The optional 250-2150 isolator is needed when the control wires from the light dimming ballast are not isolated. If either side of the control wire circuit is intentionally or accidentally connected to ground, the 250-2150 isolator is required for the 810-3048 Light Dimming Module to function properly. The isolator separates the ground on the control wire from the CPC input board.



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