

Application Note

Advanced Integration Connections

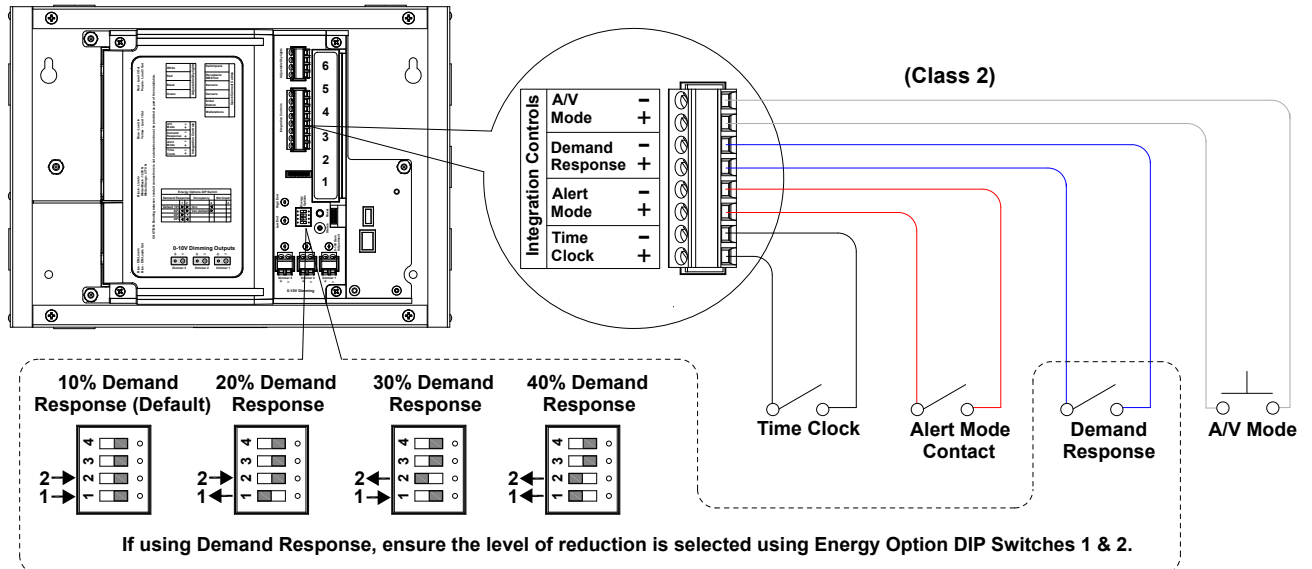
Overview

The Room Controller allows for advanced input functionality from onboard integration control inputs including: external time clock, Alert Mode, demand response system, and A/V system. The Room Controller will provide inputs for an external dry contact closure. (Advanced integration connections are not available on all models.)

Connect the dry contact closure to the appropriate terminal for the application. The terminal block is removable for ease of wiring. Use 18 AWG, 2 conductor twisted pair wiring for connection.

Note: Maximum distance must not exceed 1000 ft. (300m).

Figure 1. Room Controller Integration Controls



Overview

Input	Function	Position	Operation
Time Clock Mode	<ul style="list-style-type: none"> Time Clock Mode will not operate if occupancy sensors are attached to the Room Controller For use with Room Controllers not connected to occupancy sensors Switches the controller between After-Hours Mode and Normal Mode Contact Type Required: Normally Open, SPST Maintained 	Closed	<p>After-Hours Mode: After a short evaluation delay, the controller will blink warn onboard relays.</p> <p>* If a switch is not pressed within the blink warn period (5 minutes), lighting will turn OFF. Any button press thereafter will begin a 1 hour timer countdown.</p>
		Pulsed	<p>Sweep Mode: If the system has already initiated After-Hours Mode and the contact is already closed, Sweep Mode can be triggered. From the closed position, if the contact is pulsed (open, close, open, close) within a 3 second period, the controller will immediately cause the blink warn to occur again.</p> <p>* If a switch is not pressed within the blink warn period (5 minutes), lighting will turn OFF. Any button press thereafter will begin a 1 hour timer countdown.</p>
		Open	Normal Mode: Lighting will resume operation with no timers.
Alert Mode	<ul style="list-style-type: none"> Overrides system functions to allow for fire alarm, emergency or other systems needing to call lighting to a full ON condition Contact Type Required: Normally Open, SPST Maintained 	Closed	Onboard relays close. Dimmers go to full. Solatubes open. Receptacle Switchpack turns off. Wallstation, occupancy and daylight controls are disabled.
		Open	System is returned to normal function leaving lighting in current state. If no occupancy sensor closure is detected, lighting will blink warn and turn off 5 minutes later.
Demand Response Mode	<ul style="list-style-type: none"> Dimmers reduce current level and maximum output by 10%, 20%, 30% or 40% based on DIP Switch setting Contact Type Required: Normally Open, SPST Maintained 	Closed	Dimmers reduce by selected percentage over a 2 minute period. Controller continues to operate lighting within the reduced range.
		Open	Lighting range will revert to full scale.
A/V Mode	<ul style="list-style-type: none"> Allows a 3rd party device or system to activate and de-activate the A/V scene Contact Type Required: Normally Open, SPST Momentary 	Momentary Closure	Toggles between A/V Mode and Normal Mode. In A/V Mode, relays will stay in their previous configuration. Dimmers will be reduced to maintain light levels at 20%. [†]

*Connected alternate voltage and receptacle switchpacks will not blink warn with onboard relay loads. They will remain ON during the blink warn process and will turn OFF with other lighting once the warning periods expire.

†Final dimmer output level is determined by the following combination:

- High end trim level
- Daylighting contribution
- Demand Response value

If enough natural light is entering the space and any of these three features have been implemented, the target light level may be lower than shown. Raise commands from pushbuttons or sliders do not override or raise the lighting above the target threshold implemented by these advanced energy saving methods.

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