LIGHTING CONTROLS

FLUORESCENT DIMMING CONTROL
MODEL LDIM2

DESCRIPTION

The **Model LDIM2** is a fluorescent dimming control for dimmable electronic ballasts. It is designed for single 0-10V output with a 0-10V/2-10V input or a PWM input. Feedback is provided for light level setpoint and light level output. It is an energy saving, low cost device that is easily installed. The **LDIM2** requires dimmable ballasts designed for an analog 0-10V input.

FEATURES

- **For controlling 0-10 VDC electronically dimmable ballasts**
- **0.5 amp output capacity**
- **Fused output**
- **0-10 VDC or 2-10 VDC light level setpoint**
- **24 VAC/VDC PWM light level setpoint**
- **4-20mA light level setpoint feedback**
- **4-20mA light level output feedback**
- **24 VAC power**
- **Status LED**
- **Light output electrically isolated from automation system signals**
- **Switch-selectable fail-safe feature sets output to full-bright if input signal is lost**
- **Manual override of setpoint input**
- **3.25" x 6.00" snap-track mount**

SPECIFICATIONS

Power	24 VAC @ 250 mA
Setup	8-position DIP switch
Input signal	0-10 VDC or 2-10 VDC
	PWM (Adjustable 0.1 to 25.6 seconds)
Input impedance	50 kΩ
Output	0-10 VDC, sinking, 0.50 amp max load
Wire terminations	Removable terminal blocks
Manual override	40% to 100% (adjustable)
Feedback	(2) 4-20 mA (set point and output)
Max load impedance	625 Ω
Warranty	2 years

DIP SWITCH SETTINGS (0 = Off, 1 = On)

"LDIM" Light Dimmer	DIP Switch Assignments							
	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
PWM Input	0							
Analog Input	1							
Go 100% Bright On Signal Loss		0						
Maintain Current Brightness On Signal Loss		1						
No Manual Override			0	0	0			
Manual Override 40%			0	0	1			
Manual Override 50%			0	1	0			
Manual Override 60%			0	1	1			
Manual Override 70%			1	0	0			
Manual Override 80%			1	0	1			
Manual Override 90%			1	1	0			
Manual Override 100%			1	1	1			
PWM Timebase, 0.59-2.93 sec (SW1 = Off)						0	0	0
0.1-2.65 sec Timebase						0	0	1
0.1-5.2 sec Timebase						0	1	0
0.1-12.85 sec Timebase						0	1	1
0.1-25.6 sec Timebase						1	0	0
Analog Input Range (SW1 = On)								
0-10V						0	0	0
2-10V						0	0	1

GREEN STATUS LED OPERATION

Solid Off ("No Power")
Indicates that 24VAC power is missing. Any time power is applied, the LED should not be solid off.

Solid On ("Normal")
The LED is solid on for:
- Analog input, no override, no PWM pulse present, not in "Lost Analog Input" state.
- PWM input, no override, no PWM pulse present, not in "Lost PWM" state.

Blink-Blink-Pause ("Override")
This occurs when the board is in Override state and no PWM pulse is present.

Blink-Blink-Blink-Pause ("Lost PWM" or "Lost Analog Input")
This occurs in the PWM state, no override, when a pulse has not been received for 10 seconds (i.e., "Lost PWM" state).

This occurs in the analog input state, no override, no PWM pulse present, when the input value drops below 0.3 volts (i.e., "Lost Analog Input" state). The input value must rise above 0.5V to return to normal operation.

Rapid Blink ("PWM Pulse Active")
Any time a PWM pulse is active, the Status LED will blink rapidly. This is true even in the analog input and override modes. The rationale for this is that you may have the board in the analog input or override mode because there is a problem with the pulses coming from the controller, and this way you can visually tell when the pulses have been restored. The PWM pulse does not affect the output in the analog input and override modes, just the Status LED.
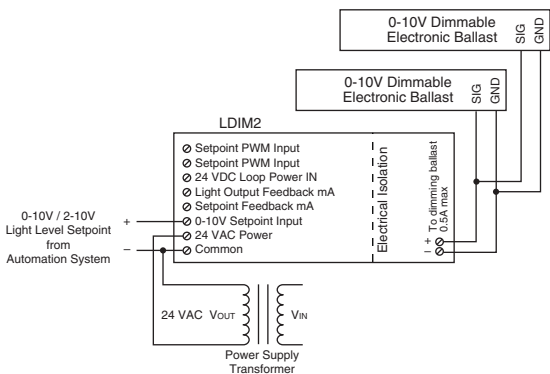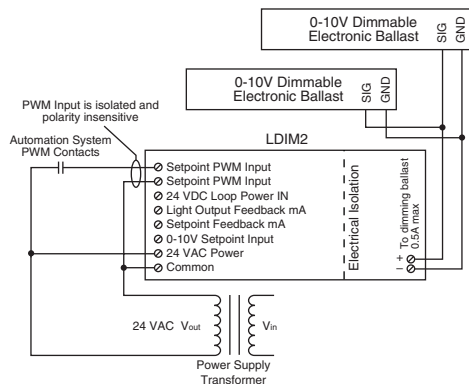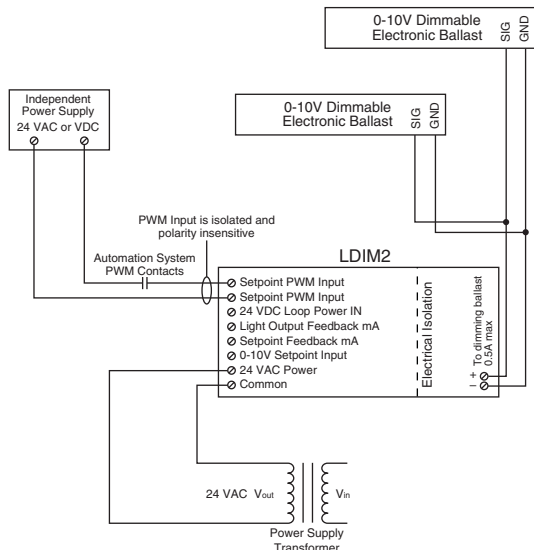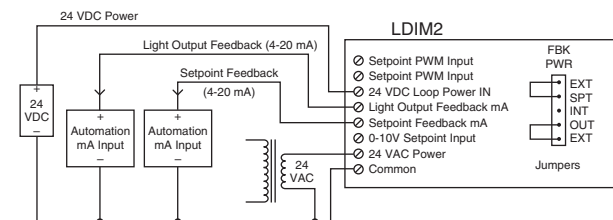
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WIRING

0-10V / 2-10V Analog Setpoint Signal from Automation System
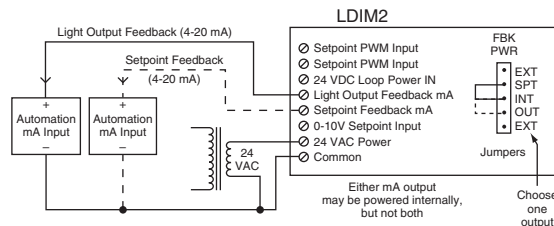(Feedback circuits not shown)

Pulse-Width Setpoint Input Using Board's Power Supply
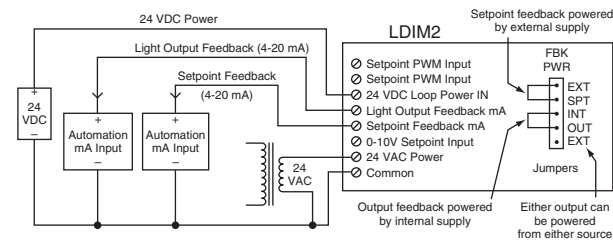(Feedback circuits not shown)

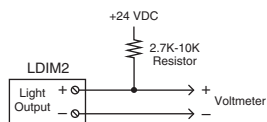**Pulse-Width Setpoint Input Using Independent Power Supply**
(Feedback circuits not shown)

Testing LDIM2 Output Without Lighting Ballast(s) Attached

Powering Both mA Feedback Signals with External 24 VDC Loop Supply

Powering Single mA Feedback Signal Internally from LDIM2

**Powering One mA Feedback Signal with External 24 VDC Loop Supply
and One mA Feedback Signal Internally from LDIM2**

ORDERING INFORMATION

MODEL	DESCRIPTION
LDIM2	Fluorescent dimming control

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