LIGHTING CONTROLS

KELE FLUORESCENT/LED DIMMING CONTROL MODULE





DESCRIPTION

The Kele Model LDIM2 is a fluorescent/LED dimming control for dimmable electronic fluorescent ballasts/LED driver module. It is designed for single 0-10V dimming output with a 0-10V input or a PWM input from BAS controllers. Feedback is provided for light level setpoint and light level output. The LDIM2 output interfaces with electronic fluorescent ballasts/LED driver modules designed for an analog 0-10V sinking input.

FEATURES

- Control output 0-10 VDC dimmable fluorescent ballasts or LED driver modules
- BAS Setpoint (0, 2-10V or PWM)
- 4-20 mA feedback for light level setpoint and output monitoring
- Output is electrically isolated from input
- Fail-safe, output to full-bright on lost signal
- Manual override of setpoint input

• 3.25" x 5.00" snap-track mount								
SPECIFICATIONS								
Supply Voltage	24VDC ±5% @ 75 mA							
Signal Input	24VAC ±10% @ 150 mA 0-10 VDC, 2-10 VDC @ 50KΩ, or PWM contact(Adj. Timebase) 0.1 to 25.6 seconds							
Signal Output	Light dimming, 0-10 VDC, sinking, 0.5A Max							
Fuse	1A fast blow (20 x 5 mm Fuse. K235-1)							
Isolation	Output signal Isolated from Input signal							
Fail Safe	Max 10V out on input signal loss							
Manual Override	40% to 100% (DIP switch adjustable)							
Feed Back	Using both requires 24VDC @							
	"LOOP IN" terminal							
Setpoint	4-20 mA (Sourcing), @650Ω							
Output Signal	4-20 mA (Sourcing), @650Ω							
Set-Up	8 DIP switches (Adj. on the fly)							
Visual Indication	Three Status LED's							
LED 1 (RED)	Output feedback loop (dim to bright)							
LED 2 (RED)	Setpoint feedback loop (dim to bright)							
LED 3 (GRN)	Off = No PWR, Solid On = normal,							
- 1/2	Blinking = See below							
Operating Temperature	14° to 122°F (-10° to 50°C)							
Operating Humidity	5 to 95% RH non-condensing							
Wiring Terminations	8-Terminals, 22 to 14 AWG wire							
	2 Ballast Signal Terminals, 22 AWG to 10 AWG							
Marratina	10 10 / 11 10							
Mounting Dimensions	Snap Track, (3.25" x 5.00") Included 3.25"W x 5"L x 1.8"H							
Dimensions								
Wainbt	(8.25 x 12.7 x 4.57 cm)							
Weight	0.75 lb (0.34 Kg)							
Approvals	CE, UL							
Warranty	2 years							





DIP Switch Assignments



RoHS

DIP SWITCH SETTINGS	(0 - OEE 1 - ON)
	(U = UFF, 1 = UN)

"LDIM" Light Dimmer	Dir Owiton Assignments								
	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8	
Analog Input Range (SW1 = On)									
0-10V, Lost Input Detected Enabled	1					0	0	0	
0-10V, Lost Input Detected Disabled	1					0	1	0	
2-10V, Lost Input Detected Enabled	1				1	0	0	1	
2-10V, Lost Input Detected Disabled	1					0	1	1	
PWM Timebase Input 0.59-2.93 sec (SW1 = Off)	0					0	0	0	
0.1-2.65 sec Timebase	0	4				0	0	1	
0.1-5.2 sec Timebase	0	10				0	1	0	
0.1-12.85 sec Timebase	0					0	1	1	
0.1-25.6 sec Timebase	0					1	0	0	
Go 100% Bright On Signal Loss		0						y31	
Maintain Current Brightness On Signal Loss		1					Kel	e	
Normal CTRL. (No OVD.)			0	0	0				
Manual Override 40%*			0	0	1				
Manual Override 50%*			0	1	0				
Manual Override 60%*		11	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				

^{*} Stops input control when activated

GREEN STATUS LED OPERATION

Solid Off (No Power)

Indicates that 24 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

Blink-Blink-Pause (Override)

This occurs when the board is in Override state and no PWM pulse is present.

Blink-Blink-Pause (Lost PWM or Lost Analog Input)

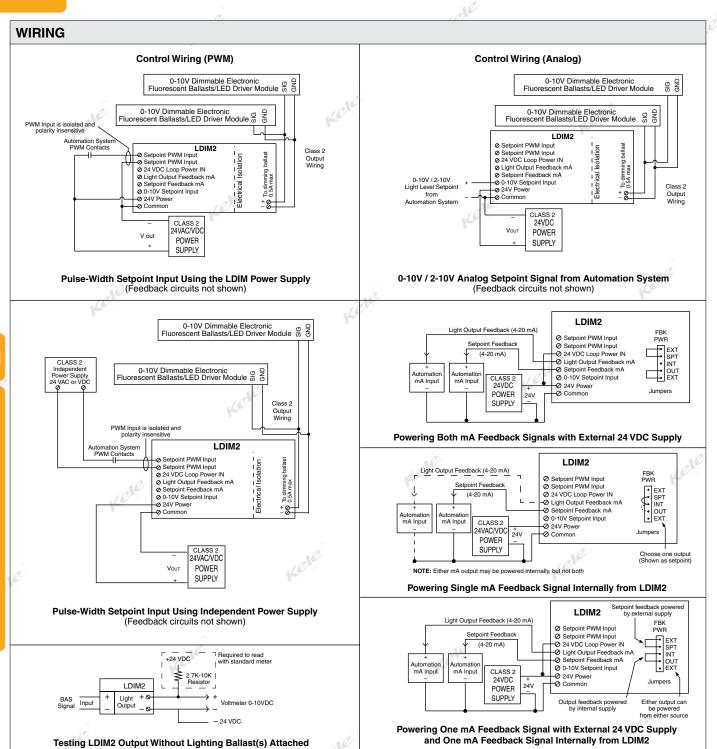
This occurs in the PWM state, no override, when a pulse has not

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. In Analog Input mode, dipswitch 7 can be used to disable Lost Analog Input detect, allowing the output to track the input all the way to zero volts. 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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ORDERING INFORMATION

MODEL DESCRIPTION

LDIM2 Analog input fluorescent ballast & LED dimming control interface module