

NEUTRAL COMMON Dimming LED Driver 24V Circuit VAV Box 120-277V LINE Dimming Common 0-10VDC Dimming 24VAC/DC @echoflex To other standard outlets to be wired as controlled outlets. (Contractor responsible for labeling downstrean ELED1-AUN 120-277 LED 0-10v Controller 120V LINE NEUTRAL Echoflex ELED-AUN 120-277 Echoflex ERM-FSU-24

Echoflex ERNR-AIU

Sequence of Operation

When the occupancy sensor in an office senses occupancy the lights will turn on to 50% and the receptacle will start providing power. When any occupancy sensor in any office senses occupancy the ERM-FSU relay will close signaling to the VAV box that occupancy was detected. If an office becomes vacant the lights will turn off and the receptacles will stop providing power in that office. When all the offices become vacant the relay in the ERM-FSU will open signaling the VAV box that all offices are vacant after a predetermined amount of time (default 15 minutes). When a Demand Response event is triggered the lights will dim down to a predetermined level.

	Typical Material List				
	Qty	Part #	Description		
	4	ELED1-AUN	LED Fixture Controller 120-277V		
4 MOS-E		MOS-DTUA	Occupancy/Vacancy Sensor (1000 Sq. Ft.)		
Г	4	ERNR-AU	Split Controlled Receptacle		
Г	4	PTM365UW	Decorator Style Switch		
	1	ERDRI-AU	Demand Response Interface		
	1	ERM-FSU	Low Voltage Signal Relay		

	Title 24 Compliance					
	Section	Requirement	Device	Part#		
	130.1a/b	Local Switching Multi-Level Dimming		PTM365UW		
	130.1c	Fully Automatic Light shut Off	③	MOS-DTUA		
	130.5d	Plug-Load Control		ERNR-AIU		
<u>,</u>	130.1e	Demand Response Ready		ERDRI-AU		

SPECIFICATION:

- 1. LIGHTING CONTROL SYSTEM TO MANUFACTURED BY ECHOFLEX SOLUTIONS INC.
- 2. ECHOFLEX LIGHTING CONTROL SYSTEM SHALL HAVE THE ABILITY TO BE FACTORY PRE-LINKED AND PRE-CONFIGURED OR PROGRAMMED ON SITE USING SIMPLE TAP, SMART CLICK OR GARIBALDI SOFTMARE
- 3. CONTROLLERS SHALL BE ABLE TO FUNCTION AS A STAND ALONE SYSTEM ALONG WITH THEIR OPTIONAL PERIPHERAL WIRELESS DEVICES INCLUDING A WALL SWITCH, SPLIT CONTROLLED RECEPTACLE, AND OCCUPANCY SENSOR.
- 4. CONTROLLERS SHALL BE ABLE TO BE NETWORKED TOGETHER TO FORM AN INTEGRATED BUILDING SOLUTION.
- 5. ECHOFLEX ELED1: 0-10V DIMMING CONTROLLER SHALL BE ETL RECOGNIZED AND UL LISTED, CONFORMING TO UL60730, AND CERTIFIED TO CANICSA STANDARD E60730 AND UL924. ALL SYSTEM CONTROL ELECTRONICS SHALL STORE PROGRAMMING IN NON-VOLATILE MEMORY. THE CONTROLLER SHALL BE CAPABLE OF REPEATING SIGNALS AND TRANSMITTING STATUS.
- 6. OCCUPANCY SENSORS (OS): OCCUPANCY SENSOR SHALL BE SOLAR POWERED WIRELESS SENSOR WITH AN OPTIONAL BATTERY. SENSOR SHALL BE COMPATIBLE WITH OCCUPANCY AND VACANCY MODES WHEN USED IN CONJUNCTION WITH THE DIMMING ROOM CONTROLLER. SENSOR SHALL PROVIDE LED INDICATION FOR RF RANGE CONFIRMATION. SENSOR SHALL WIRELESSLY COMMUNICATE WITH THE SPLIT CONTROLLED RECEPTACLE. SENSOR SHALL WIRELESSLY COMPLETE DARKNESS.
- 7. RF SYSTEM SHALL NETWORK WIRELESSLY. INTEGRATION WITH BMS/DEMAND RESPONSE VIA THE USE OF GATEWAYS AND WIRELESS/WIRED I/O INTERFACES. VERIFY AND INSTALL ONLY THOSE INTERFACES INDICATED ON THE PLANS.
- 8. EC SHALL INSTALL ECHOFLEX SYSTEM AS INDICATED PER MANUFACTURER'S FINAL DRAWINGS AND INSTALLATION DOCUMENTS IN ACCORDANCE TO ALL LOCAL AND NATIONAL CODES. FACTORY ONSITE START UP AND TRAINING IS OPTIONAL. ECHOFLEX REQUIRES 3 WEEKS ADVANCED NOTICE TO SCHEDULE ONSITE START UP IF REQUESTED. ECHOFLEX WILL PROVIDE SYSTEM VERFICATION AND ADJUST PROGRAMMING IF REQUIRED TO CUSTOMER REQUIREMENTS.
- 9. THIS DRAWING REPRESENTS DESIGN CONCEPT AND INTENT ONLY. WE DO NOT GUARANTEE THE INFORMATION IN THIS DOCUMENT IS SUITABLE FOR YOUR PARTICULAR APPLICATION, NOR DO WE ASSUME ANY RESPONSIBILITY FOR YOUR SYSTEM DESIGN, INSTALLATION OR OPERATION, WE RESERVE THE RIGHT TO MAKE CHANGES TO THE PRODUCTS DESCRIBED OR INFORMATION HEREIN AT ANY TIME WITHOUT NOTICE AND WITHOUT ANY OBLIGATION.
- 10. SPECIFICATIONS SUBJECT TO CHANGE WITHOUT
- 11. TELEPHONE FACTORY SUPPORT SHALL BE AVAILABLE AT NO ADDITIONAL COST TO THE EC OR
- 12. CONTACT ECHOFLEX SOLUTIONS

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QUOTES@ECHOFLEXSOLUTIONS.COM
ECHOFLEXSOLUTIONS.COM



Typical Office/s with HVAC Occupancy Interface

UNLESS OTHERWISE SPECIFIED - ALL DIMENSIONS IN MILLIMETERS - #9DC-9402