

NEUTRAL Dimming LED Driver 120-277V LINE Dimming Common 0-10VDC Dimming Echoflex ELED-AUN 120-277 echoflex Mounts through 1/2" knockout into J Box or fixture Communicates on 902 MHz frequency 0-10V dimming capability up to 100mA of sinking current ELED1-AUN 120-277 Controls up to 11.5A of lighting load LED 0-10v Controller Configurable through software or other mechanical means Transmission range of 24 m (80 ft) up to 100 m (330 ft) line of sight

Echoflex ERNR-AIU

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- . Mounts in a standard single gang box
- Communicates on 902 MHz frequency
- Top half uncontrolled, bottom half controlled
- Arrows light up indicating controlled half Unit controls up to 15A of plug load
- Configurable through software or other mechanical means

To other standard

controlled outlets

120V I INF NEUTRAL

outlets to be wired as

Transmission range of 24m (80ft) up to 100m (330ft) line of sight

120\//277\/ Line GROUND

Echoflex OWS-DT-120/277

- · Communicates on 902 MHz frequency
- Dual Technology, Passive Infrared & Acoustic Interface
 On/Off Switching & Up/Down Dimming
- . Mounts in a Standard Single Gang Ring or Box
- · Configurable through software or other mechanical means
- Transmission range of 24m (80ft) up to 100m (330ft) line of sight

Sequence of Operation

When the occupancy sensor in the space senses movement, receptacles and lighting will automatically turn on. The switch on the wall can be used to turn the lights on and off. A quick press up or down of the switch will turn the lights on or off. A press and hold up or down will dim the lights up or down. The daylight sensor in the room will determine the level of artificial and natural light in the space and dim the lights in the daylight zones to maintain a set point. The lowest dimming value between the daylight sensor and wall switch will be the dim level used. When the room becomes vacant, the lights and receptacles will turn off 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			
2	ELED1-AUN	LED Fixture Controller 120-277V			
1	OWS-DT-120/277	Occupancy/Vacancy Sensor On/Off & Up/Down Dimming			
1	TAP-31U	Interior Photo Sensor			
1	ERNR-AU	Split Controlled Receptacle			
1	ERDRI-AU	Demand Response Interface			

Title 24 Compliance					
Section	Section Requirement		Part #		
130.1a/b/c	Local Switching Multi-Level Dimming & Fully Automatic Light shut Off		OWS-DT-120/277		
130.5d	Plug-Load Control	\$ <u> </u>	ERNR-AIU		
130.1d	Multilevel Daylight Control	(0)	TAP-31U		
130.1e	Demand Response Ready	Quality (Co.)	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 SOFTWARE
- 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 CAN/CSA 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. WALL SWITCH OCCUPANCY SENSOR (OWS): THE WALL SWITCH OCCUPANCY SENSOR SHALL UTILIZE 120 OR 277VAC POWER. 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. THE WALL SWITCH SENSOR SHALL BE ABLE TO MANUALLY TURN AND DIM LOADS ON/OFF AND UP/DOWN WHEN USED WITH COMPATIBLE WIRELESS CONTROLLERS.
- RE 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 VERIFICATION 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
- 10. SPECIFICATIONS SUBJECT TO CHANGE WITHOUT
- 11. TELEPHONE FACTORY SUPPORT IS AVAILABLE AT NO ADDITIONAL COST TO THE EC OR OWNER.
- 12. CONTACT ECHOFLEX SOLUTIONS

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UNLESS OTHERWISE SPECIFIED - ALL DIMENSIONS IN MILLIMETERS - #8DC-9870