



Type(s)

Project

Date

Notes

## GENERAL INFORMATION

The Echoflex Phase Dimmers provide load sensing technology that delivers line voltage phase dimming of most any lighting fixture. Always compatible with popular LED and ELV loads, Echoflex has increased the controllable output and added magnetic low voltage support for LED downlights, LED tape and Track lighting. With 1200 watts of phase dimming power, there's no need to add power boosters anymore. Exceptional dimming performance comes standard in all models.

Echoflex controller products now include preset functionality that allows spaces to be lit with lighting scenes. Controller presets can be activated from scene stations or wireless time clocks. A lockout feature allows time clocks to schedule a controller's response to specific sensor types or stations based on time-of-day.

### APPLICATIONS

- Houses of worship
- Museums
- Down lights
- Track lighting
- LED Tape
- Architectural lamps
- Chandeliers
- Hospitality, suites, restaurants
- Conference rooms
- Meeting rooms
- Retail, showcase displays

### FEATURES

- Single channel, load sensing, phase adaptive line voltage dimmers
- Meets the latest revisions of California Title 24, IECC, and ASHRAE 90.1 requirements
- Individual fixture or single zone control
- Built-in preset values can be used to create lighting scenes driven by wall station or time clock
- Lockout control allows scheduling of linked responsive devices
- Pre-linking and pre-configuration available when sold as a pre-commissioned system through Echoflex
- Easy commissioning options include embedded Simple Tap™ technology plus Garibaldi Pro, Echoflex's in-field commissioning software

## ORDERING INFORMATION

### Echoflex Phase Adaptive Dimmers

MODEL	DESCRIPTION
ER6CD-BU 120	600 Watt Phase Adaptive Dimmer, 120 V
ER12CD-AU 120	1200 Watt Phase Adaptive Dimmer, 120 V
ER12CD-AU 277	1200 Watt Phase Adaptive Dimmer, 277 V

### Power Requirements

120 VAC or 277 Power 50 / 60 Hz

4 Watt idle - no load

### Output Load Types

Line Voltage LED driver	Tungsten
Electronic Low Voltage (ELV)	Fluorescent (2 wire)
Magnetic Low Voltage (MLV) (120 V only)	Triac

Note: for all loads, calculate maximum wattage based on the driver's maximum rated output power

### Supported Profiles

MSC - manufacturer specific	Scene Stations, Wireless TimeClock Contact factory representative for more details
F6-02-01/02	Light Switch, EU and North America
F6-04-01	Keycard Switch
A5-06-01/04/05	Light Sensor, Exterior light levels
A5-06-02/03	Light Sensor, Interior light levels
A5-07-01/02/03	Occupancy Sensor
A5-37-01	Demand Response
A5-38-08	Gateway Command
D2-14-25	Light Sensor, CCT and light level
A5-30-02 A5-10-0A/0B D5-00-01	Door/Window Contact

## SPECIFICATIONS

### FUNCTIONAL

- Use with battery-free wall switches, solar powered photo sensors and occupancy sensors
- Gateway command support for BEMS integration
- Demand Response support for OpenADR applications
- Daylight harvesting control with photo inhibit mode
- Occupancy control with Partial ON Enable and Value and Vacancy control with Partial OFF Enable and Value
- Built-in preset values can be used to create lighting scenes driven by switch station or time clock
- Schedule device masking of stations or sensors provides time-based remote device control
- Window/Door switch and Keycard station support for hospitality applications
- Range Confirmation® allows optimal placement of linked sensors - (Echoflex sensors with range confirmation feature only)

### MECHANICAL

- 1/2" conduit nipple mounting
- LEARN and CLEAR buttons for linked device management
- POWER and LEARN tri-color LEDs

### COMMUNICATIONS

- 902MHz (U) radio frequency
- Wireless range of up to 24 m (80 ft.) - commercial office spaces (typical), up to 100 m (330 ft.) line-of-sight
- Integrated whip antenna

### ENVIRONMENTAL

- Operating temperature: CSA 0°–40°C (32°–104°F), UL 0–50°C (32°–122°F)
- Ambient humidity: 5–93% RH non-condensing

### REGULATORY AND COMPLIANCE

- Certified UL 508: 2018 Ed.18
- Certified CAN/CSA C22.2 #14:2 013 Ed.12
- ETL Listed Component 101312656COQ
- UL 2043 Plenum Rated
- FCC Part 15.231 Remote Control Transmitter
- Industry Canada IC RSS-210

### ENERGY CODE COMPLIANCE

- California Energy Commission - CEC Title 24
- Washington State Energy Code - WSEC
- ANSI / ASHRAE / IES Standard 90.1
- International Energy Code - IECC
- New York City Energy Conservation Code - NYCECC

## PHYSICAL

### TimeClock Weight and Dimensions

MODEL	HEIGHT		WIDTH		DEPTH		WEIGHT	
	in	mm	in	mm	in	mm	oz	g
ER12CD, ER6CD	3.07	78	3.5	89	1.85	47	9	255

