Echoflex Solutions

Elaho 600W Dimmer

Distributed Power Series

GENERAL INFORMATION

The Echo 600W Dimmers provide line dimming of various load types. The Phase Adaptive dimmer is perfect for Electronic Low Voltage (ELV), Incandescent, and Fluorescent loads, while the Forward Phase dimmer is better suited for Magnetic Low Voltage (MLV) loads. The dimmers mount to an electrical junction box.

APPLICATIONS

- Houses of worship
- Education
- Hospitality
- Healthcare facilities
- Office buildings
- Conference rooms
- Meeting rooms
- Retail

FEATURES

- Single-channel, 600-watt dimmer
- Forward or Reverse-phase dimming options
- 120 V or 277 V power input
- Plug and Play: ready to go out of the box, no software or external programming required
- Supports Elaho control stations and responsive controls
- Two-wire topology-free system gives you the freedom to put station where you need them
  - Up to 16 control products
  - Up to 16 output products
  - Up to 500 m (1,640 ft) of control-wire per system
- Supports Demand Response via station bus

REGULATORY AND COMPLIANCE

- cULus LISTED
  - Conforms to UL 508 and UL 2043
- Rated for plenum use
- Supports Demand Response via EchoConnect

ORDERING INFORMATION

Line Voltage Dimmer

MODEL	DESCRIPTION
ELVD-G2	600-Watt Phase Adaptive Dimmer (120 V)
ELVD-277-G2	600-Watt Phase Adaptive Dimmer (277 V)
ELVD-G2-MLV	600-Watt Forward Phase Dimmer (120 V)
ELVD-277-G2-MLV	600-Watt Forward Phase Dimmer (277 V)

Power Requirements

Bus Power:	One unit of output power
Auxiliary Power:	Not required

Presets

Supports 16 Presets

echoflex

an ETC Company

SPECIFICATIONS

FUNCTIONAL
- Control individual fixtures or power for tungsten, line-voltage LED and other general-purpose loads
- Supports loads up to 600 watt, minimum of 1 watt
- Phase Adaptive Dimmer provides automatic detection of required dimming mode (forward or reverse phase) with manual override selection
- Plug and Play: ready to go out of the box, no software or external programming required
- Interacts with Elaho Responsive Controls and Stations

MECHANICAL
- Constructed of injection-molded ABS plastic
- Button interface and LED indicator per zone for configuration
- Rotary dials for selection of space and zone number
- Half-inch conduit knockout mounted
- Mains-voltage wiring exits through knockout mount
- Station bus wiring exits through side of controller
- MicroSD for field software upgrades
- Optional mounting plate available for applications that require low-voltage wiring to be in conduit
- External heatsink
- Mains power input:
  - 12 AWG Hot - Black (120 V), Brown (277 V)
  - 14 AWG Neutral - White
  - 12 AWG Ground - Green/Yellow
- Dimmed output:
  - 12 AWG - Red

ELECTRICAL
- 120 V or 277 VAC, 50/60 Hz power input
- Phase-adaptive dimming variant, default reverse phase, auto-switches to forward phase depending on load type
- Forward phase dimming variant for Magnetic loads dims in forward phase only
- 600W load capacity
- Class 2 control network
  - Topology-free wiring using Belden 8471 or equivalent and one #18 ESD drain wire
  - Wiring may be bus, loop, homerun or any combination of these
- Up to 500 m (1,640 ft) of control wiring per system
- Optional Cat5/5e wiring using Belden 1583A or equivalent
  - Requires optional Cat5 termination accessories

THERMAL
- Ambient room temperature: -10°–45° C (14°–113° F)
- Ambient humidity: 5–95% non-condensing

ELAHO FAMILY PRODUCTS

Bus Power Supplies

MODEL	DESCRIPTION
E-SPS	6 U Room Station Power Supply, Knockout Mount
E-SPS-DIN	16 U DIN rail Station Power Supply with 24V Aux
E-APS	24V Aux Power Supply, Knockout Mount

ElahoTouch

MODEL	DESCRIPTION
ETS	ElahoTouch Controller Mk2

Elaho Stations

MODEL	DESCRIPTION
E1001	Inspire One Button Station
E1002	Inspire Two Button Station
E1004	Inspire Four Button Station
E1006	Inspire Six Button Station
E1008	Inspire Eight Button Station
E1104	Inspire Four Button with Fader Station
EPS05	Preset Station - 5 Button
EPS10	Preset Station - 10 Button
EPSKS	Keyswitch Station
E-ATC	TimeClock

Elaho Responsive Controls

MODEL	DESCRIPTION
ELS	Light Sensor
EOCC	Ceiling-Mount PIR Occupancy Sensor
EVAC	Ceiling-Mount PIR Vacancy Sensor
E-DOC-C	Ceiling-Mount Dual Tech Occupancy Sensor
E-DVAC-C	Ceiling-Mount Dual Tech Vacancy Sensor
E-DOC-W	Wall-Mount Dual Tech Occupancy Sensor
E-DVAC-W	Wall-Mount Dual Tech Vacancy Sensor
E-DOC-SM1	Switch-Mount Dual Tech Sensor - One Button
E-DOC-SM2	Switch-Mount Dual Tech Sensor - Two Button

Elaho Interfaces

MODEL	DESCRIPTION
EACC	ElahoAccess Interface
EEB	Expansion Bridge
EDMXC	DMX Scene Controller
EEI	Elaho-Echoflex Interface
ECII	Contact Input Interface
ECOI	Contact Output Interface
EDRI	Demand Response Interface
EBI	BACnet Interface
EII	Integration Interface

Zone Controllers

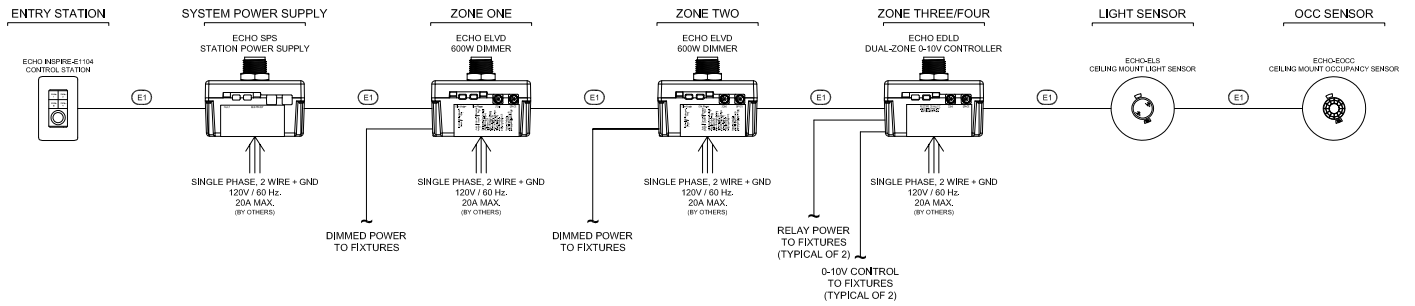| MODEL	DESCRIPTION
ERC-G2	One Zone Relay Controller
EDRC-G2	Two Zone Relay Controller
ELD-G2	One Zone 0–10 V Controller
EDLD-G2	Two Zone 0–10 V Controller
ESSC-G2	One Zone SmartSpace Controller
EDSSC-G2	Two Zone SmartSpace Controller
ELVD-G2	600-Watt Phase Adaptive Dimmer (120 V)
ELVD-277-G2	600-Watt Phase Adaptive Dimmer (277 V)
ELVD-G2-MLV	600-Watt Forward Phase Dimmer (120 V)
ELVD-277-G2-MLV	600-Watt Forward Phase Dimmer (277 V)

Room Controllers

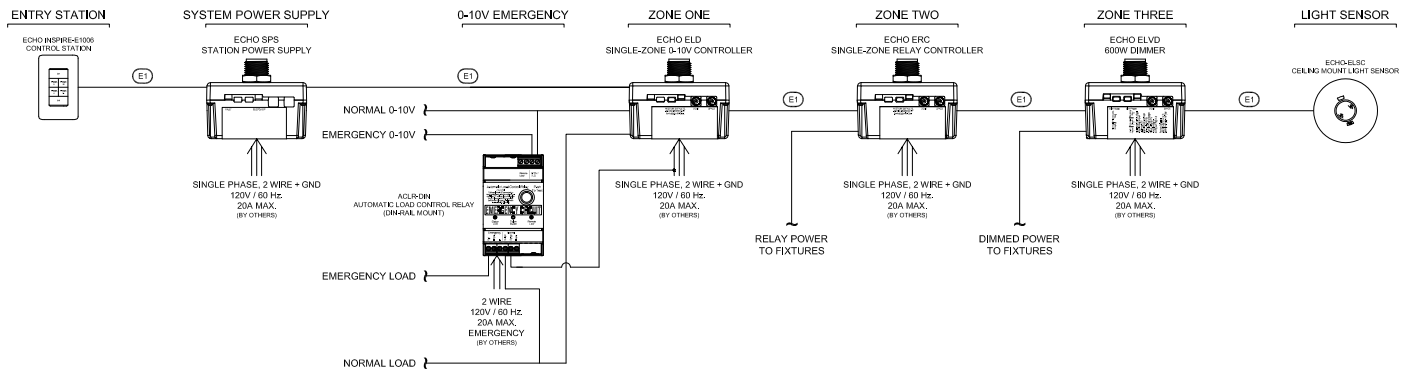| MODEL	DESCRIPTION
ERMC4-G2	Four Zone Room Controller
ERMCT4-G2	Four Zone Room Controller with TimeClock
ERMC8-G2	Eight Zone Room Controller
ERMCT8-G2	Eight Zone Room Controller with TimeClock

Panel Products

MODEL	DESCRIPTION
ERP	Elaho Relay Panel Mains Feed
ERP-FT	Elaho Relay Panel Feed Through

SAMPLE SYSTEMS

SMALL SYSTEM

CONFERENCE ROOM

PHYSICAL

Dimmer Dimensions

MODEL	HEIGHT		WIDTH		DEPTH	
	in	mm	in	mm	in	mm
ELVD-G2 (All Variants)	2.0	50.8	3.5	88.9	3.0	76.2

Dimmer Weight

MODEL	WEIGHT	
	lb	kg
ELVD-G2 (All Variants)	0.75	0.34