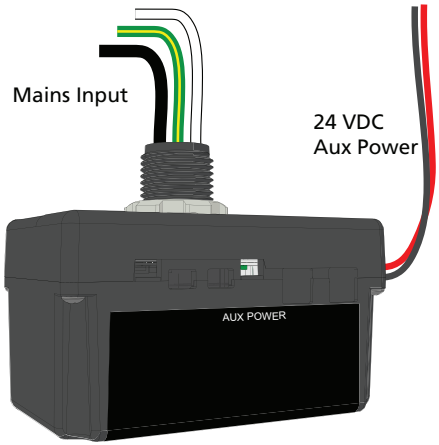
# Echoflex Solutions Installation Guide
## Elaho 24 VDC Auxiliary Power Supply

## Overview

The Elaho 24 VDC Auxiliary Power Supply provides power to compatible Elaho stations, responsive controls, and Elaho power controllers.




For use with Echoflex Solutions Elaho Control Systems, powered by an Elaho station power supply.

## Specifications

### Ambient Environment

- For indoor use only
- Suitable for air handling/plenum use
- 0°C–45°C (32°F–113°F) operating temperatures in 5–95% non-condensing humidity

### Electrical

- 100–277 VAC, 50/60 Hz
- Outputs 24 VDC, 4 W (160 mA) of power

### Compliance

- cULus listed according to standards UL 508, UL 916, and UL 2043

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### Prepare for Installation

The Elaho 24 VDC Auxiliary Power Supply is designed for mounting directly to an electrical junction box or panel (provided by others).

***Note:*** *If your installation requires Class 2 wiring to be installed in conduit, a voltage barrier installation box is available from Echoflex Solutions. Order Echoflex Solutions part number 7187A1000.*

## Installation

Installation should follow all local codes and standard electrical practices. Ensure that the back box is clean and free of obstructions and that all wiring is installed correctly.

**WARNING:** RISK OF ELECTRIC SHOCK! This power supply utilizes high voltage and should only be installed by a qualified installer or electrician. Follow all local codes for installation. Before terminating the AC power wiring verify the main breaker is in the off position and follow the proper lockout/tag out procedures per NFPA Standard 70E.

*For indoor use only.*

1. Locate the circuit breaker panel and turn off the power to the circuit.
2. Mount the Elaho 24 VDC Auxiliary Power Supply to the exterior of the junction box or panel using the 13 mm (1/2 in) threaded nipple. A conduit locknut is provided to secure the controller to the junction box or panel.

***Note:*** *Follow all local code requirements for terminating wire.*

## Connect Auxiliary Power

24 VDC auxiliary power output wire terminations are located on the side of the unit and include a black wire (COM) and a red wire (24 VDC).

Use appropriately sized wire nuts or other wire termination devices (not provided) to secure each connection.

1. Pull all required wiring (COM and 24 VDC) to the power supply or installed junction box.
2. Connect the black (COM) wire to the incoming COM wire (typically black).
3. Connect the red (24 VDC) wire to the incoming 24 VDC wire (typically red).

## Connect Mains Power Input

The mains power input is located through the conduit knockout mount on the enclosure. Use appropriately sized wire nuts or other wire termination devices (not provided) to secure each connection.

1. Pull all required wiring (ground, line hot, and neutral) to the installed junction box.
2. Connect the green/yellow 1.5 $mm^2$ (16 AWG) ground wire to the incoming ground wire (typically green/yellow) from the breaker panel.
3. Connect the white 1.5 $mm^2$ (16 AWG) neutral wire to the incoming neutral wire (typically white) from the breaker panel.
4. Connect the black 1.5 $mm^2$ (16 AWG) hot wire to the incoming line input feed wire (hot, typically black) from the breaker panel.

# Power Up and Test

Restore power to the circuit. The AUX POWER LED will display green when auxiliary power is present.

If a fault is discovered in the wiring, the AUX POWER LED will turn off.