## Eaton CS120LA

# Eaton CS120LA 20-Amp 120/277-volt Commercial Grade Single Pole Compact Toggle Switch Instruction Manual

Model: CS120LA | Brand: Eaton

## 1. INTRODUCTION

This instruction manual provides essential information for the safe and proper installation, operation, and maintenance of your Eaton CS120LA 20-Amp 120/277-volt Commercial Grade Single Pole Compact Toggle Switch. Please read this manual thoroughly before beginning any work.

## 2. SAFETY INFORMATION

**WARNING:** Risk of electric shock. Improper installation can result in serious injury or death. Always turn off power at the circuit breaker or fuse box before wiring. Installation should be performed by a qualified electrician in accordance with all national and local electrical codes.

- Ensure power is disconnected before installation or servicing.
- Use only copper wire.
- Do not exceed the specified voltage and current ratings.
- This switch is designed for indoor use in dry locations.

## 3. PRODUCT FEATURES

- Rated for 20-amps and 120/277-volts, suitable for switching one light from one location.
- Heavy-duty cam action mechanism ensures quiet switch operation.
- Equipped with a ground screw terminal as standard.
- Ideal for fluorescent lighting fixtures.
- Features side wire terminals that accept up to No. 10 solid or stranded wire.
- Color-coded strap markings: Blue for 15-amps, Red for 20-amps.

## 4. SETUP AND INSTALLATION

Professional installation is recommended for this electrical device. Follow these general steps for installation:

1. **Turn Off Power:** Locate the circuit breaker or fuse that controls the power to the switch location and turn it OFF. Verify power is off using a voltage tester.
2. **Remove Old Switch (if applicable):** Carefully remove the wall plate and unscrew the old switch from the electrical box. Disconnect the wires, noting their connections.
3. **Prepare Wires:** Strip approximately 1/2 inch of insulation from the ends of the circuit wires if necessary. Ensure wires are clean and free of damage.
4. **Wire the New Switch:**

   - Connect the ground wire (bare copper or green) to the green ground screw terminal on the switch.
   - Connect the incoming hot wire to one of the brass side screw terminals.
   - Connect the outgoing load wire to the other brass side screw terminal.
   - Ensure all connections are tight and secure. The side wire terminals accept up to No. 10 solid or stranded wire.

5. **Mount the Switch:** Carefully fold the wires into the electrical box and secure the switch to the box with the provided screws.
6. **Install Wall Plate:** Attach the decorative wall plate over the switch.
7. **Restore Power:** Turn the power back ON at the circuit breaker or fuse box.
8. **Test Operation:** Test the switch to ensure it functions correctly.

*Image 1: Eaton CS120LA Toggle Switch showing the side wiring terminals and internal components. Note the "SPEC GRADE" marking and the "OFF" position of the toggle.*

## 5. OPERATING INSTRUCTIONS

The Eaton CS120LA is a single-pole toggle switch designed for simple ON/OFF control of a lighting fixture or other electrical load from a single location.

- To turn the connected device ON, push the toggle lever to the "ON" position (typically upwards).
- To turn the connected device OFF, push the toggle lever to the "OFF" position (typically downwards).

## 6. MAINTENANCE

The Eaton CS120LA switch requires minimal maintenance. Ensure the switch and wall plate are kept clean and free of dust. Use a soft, dry cloth for cleaning. Do not use abrasive cleaners or solvents.

- Periodically check for loose connections or signs of wear. If any issues are observed, turn off power and consult a qualified electrician.

## 7. TROUBLESHOOTING

If the switch is not functioning as expected, consider the following common issues:

- **No Power:** Check the circuit breaker or fuse. Ensure it is in the "ON" position.
- **Loose Connections:** Turn off power and carefully inspect all wire connections at the switch and the fixture. Tighten any loose connections.
- **Incorrect Wiring:** Review the installation steps to ensure the switch is wired correctly.
- **Damaged Switch:** If the switch appears physically damaged or emits unusual odors, turn off power immediately and replace the switch.

If troubleshooting steps do not resolve the issue, consult a qualified electrician.
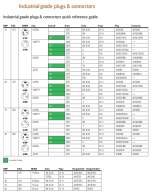
## 8. SPECIFICATIONS

| Feature | Specification |
|---|---|
| Brand | Eaton |
| Model Number | CS120LA |
| Mounting Type | Wall Mount |
| Voltage | 120/277 Volts AC |
| Current Rating | 20 Amps |
| Operation Mode | ON-OFF |
| Switch Type | Single Pole Toggle |
| Contact Material | Brass |
| Wire Compatibility | Up to No. 10 solid or stranded wire |
| Product Dimensions | 1.64 x 1.64 x 1.64 inches |
| Item Weight | 2.39 ounces |
| Color | Light Almond |

## 9. WARRANTY AND SUPPORT

The Eaton CS120LA Commercial Grade Single Pole Compact Toggle Switch comes with a **10-year limited warranty** that protects against defects in material and workmanship. For warranty claims or technical support, please contact Eaton customer service directly or visit their official website. Keep your purchase receipt as proof of purchase.
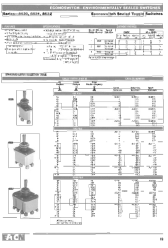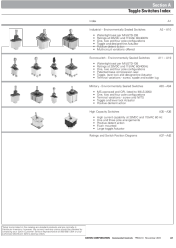
For further assistance, please refer to the official Eaton website or contact their customer support.

## Related Documents - CS120LA



[Eaton Arrow Hart Industrial Grade Plugs and Connectors Catalog](#)
Comprehensive catalog of Eaton Arrow Hart industrial grade straight blade plugs, connectors, receptacles, inlets, and outlets. Features quick reference guides, NEMA configurations, and detailed specifications.

[Eaton Econoswitch Sealed Toggle Switches Series 8530, 8531, 8532 Datasheet](#)
Detailed technical specifications, features, current ratings, and mounting dimensions for Eaton's Econoswitch environmentally sealed toggle switches, series 8530, 8531, and 8532. Includes lever selection tables and terminal identification.

[Eaton Aerospace Master Technical Publications Index List](#)
A comprehensive index of technical publications for Eaton Aerospace products, detailing part numbers, model numbers, document types, issue dates, aircraft platforms, and manufacturing sites. This list serves as a crucial resource for maintaining and servicing aerospace components.

[Scantronic PAN-200WE-KPZ Expandable 200-Zone Control Panel Data Sheet](#)
Technical data sheet for the Scantronic PAN-200WE-KPZ, an expandable 200-zone control panel with SecureConnect™ enabled, offering advanced features like decimal expansion, performance bus, and semi-auto addressing. Includes detailed product specifications and dimensions.

[Eaton Toggle Switches Catalog: Industrial, Military, High Capacity, and Lever Lock Series](#)
Comprehensive catalog from Eaton Corporation detailing environmentally sealed toggle switches. Features Industrial, Econoswitch, Military (MIL-S-3950), High Capacity, and Lever Lock series with detailed specifications, current ratings, circuit diagrams, and mounting dimensions for models 8500-8505, 8510-8512, 8520-8522, 8526-8528, 8530-8538, 8566-8568, 8570-8575, and 8780-8782, 8790-8792.

[Parallel UPS Systems: Enhancing Capacity and Redundancy with Eaton's HotSync Technology](#)
Explore the benefits and technical aspects of parallel Uninterruptible Power Supply (UPS) systems for increased capacity and redundancy. This white paper details Eaton's innovative HotSync paralleling technology, contrasting it with traditional methods and highlighting its advantages in reliability, control, synchronization, and load balancing for critical power applications.