



INSTALLATION, OPERATION & APPLICATION GUIDE

For more information on our complete range of American-made products – plus wiring diagrams, troubleshooting tips and more, visit us at www.icmcontrols.com



ATTENTION: No replaceable or repairable parts;

ATTENTION: Aucune pièce remplaçable ou réparable



ELECTRICAL SHOCK HAZARD
– Before installing this unit, turn off power at the main service panel by removing the fuse or switching the appropriate circuit breaker to the OFF position.



WARNING — SHOCK HAZARD — DO NOT OPEN;
ATTENTION — RISQUE DE CHOC — NE PAS OUVRIR

Installation of the ICM517A-LITE must be done by a certified HVAC technician or licensed electrician. All wiring must conform to national, state and local electrical codes. 14AWG wire or larger required. Product contains no serviceable parts.

SPECIFICATIONS

Service Voltage: 120/240 volt, single phase

Maximum Surge Current: 60,000 amps

Maximum Energy Dissipation: 612 joules

Installation Point: Electrical panel, disconnect, enclosure

Diagnostics: Green light indicates surge suppression present

Enclosure: NEMA Type 4X waterproof enclosure

AC Protection Modes: L-L, L-G

Conduit Connection: 1/2"

Dimensions: 3.75" L x 2.25" W x 1.02" D

Weight: 0.25 lbs.

Ambient Temperature: -40°C to 80°C

SCCR: 10kA

MODE OF OPERATION

The **ICM517A-LITE** is UL Rated as a Type 2 surge protective device and must be installed before the equipment it is intended to protect. It can be installed at the A/C disconnect or an indoor/outdoor electrical panel. Suitable for use on a circuit capable of delivering not more than 10,000 rms symmetrical amperes, 240VAC max, (conviert à des circuits produisant au plus 10,000 A eff, 240VAC max), when protected by a circuit breaker rated 15-60A and 120V minimum or when Protected by Class CC, CD, G, H, J, L, R, T or K Fuses rated 15-60 amperes and 240 volts minimum. Device wires should be kept at a minimal length with no bends to improve response time and effectiveness of the device. Contains no serviceable parts. LED indicates when surge protection is present.



CAUTION: Risk of Electric Shock – Only intended for installation in accordance with National Electrical Code, ANSI/NFPA-70, Article 398

INSTRUCTIONS

- Turn off the main breaker and/or main power to the service disconnect.
- Remove the cover on service disconnect or the electrical panel.
- Mount through conduit connection of electrical panel:
 - Remove the conduit nut and sealing ring from the box.
 - Feed the wires into the electrical panel service disconnect.
 - Re-secure the lock nut and sealing ring (see mounting instructions).
- Route the green wire to the grounding lug and secure.
- Connect the two black wires (see wiring for 120 & 240VAC).
 - **For electrical panel:** Connect to load side of single or two-pole breaker feeding load.
 - **For A/C disconnect:** Connect to the disconnect load side terminals.
- Reinstall cover on service disconnect or the electrical panel.
- Restore power; LED should be on with 120 VAC present from black to green.
- Close electrical panel or cover.

STATUS CHECK PROCEDURE

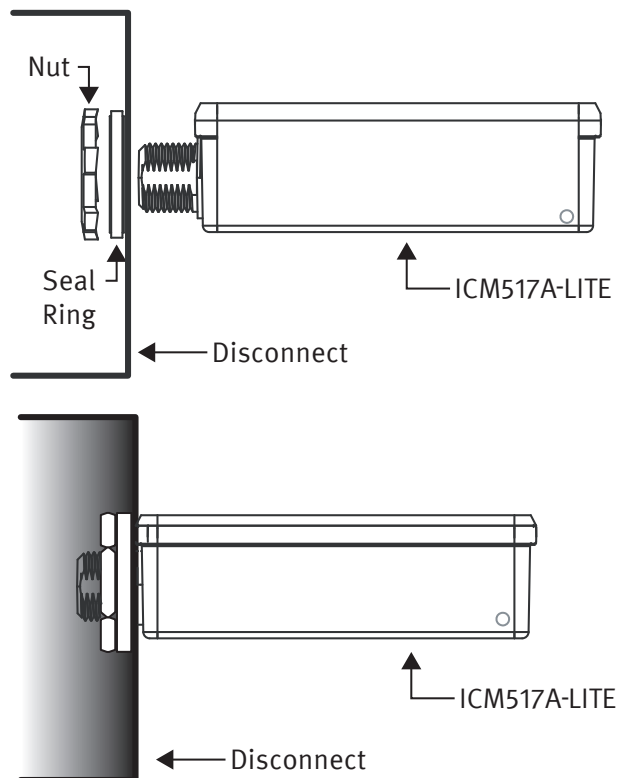
Periodically check the status light on the ICM517A-LITE. If this light is not illuminated, check power to the disconnect or breaker where the ICM517A-LITE is mounted. If power is present, but no light is illuminated on the ICM517A-LITE, replace the ICM517A-LITE immediately. If power is not present at the breaker or disconnect, restore power and check if the status light on the ICM517A-LITE is illuminated. If breaker is not resetting, call a qualified technician.

MOUNTING DIAGRAM



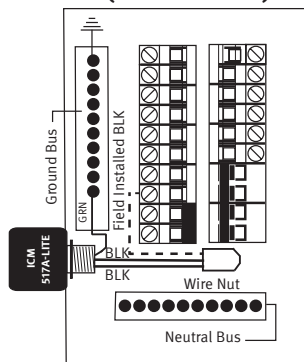
WARNING: The ICM517A-LITE should be mounted directly to a panel or enclosure. Never mount directly to conduit!

1. Install the ICM517A-LITE 1/2" threaded fitting through knockout in disconnect box.
2. Install the rubber gasket over the fitting on the inside of the disconnect box.
3. Install the conduit nut on the fitting and tighten down until the assembly is secure.

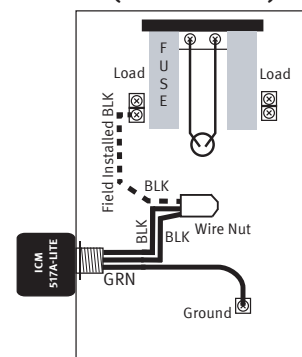


WIRING DIAGRAM (120 VAC)

**Indoor Installation
(120 VAC Shown)**

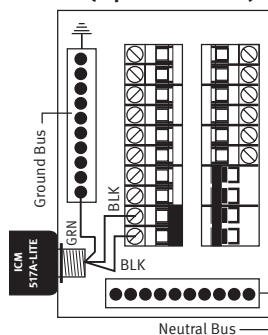


**Outdoor Installation
(120 VAC Shown)**

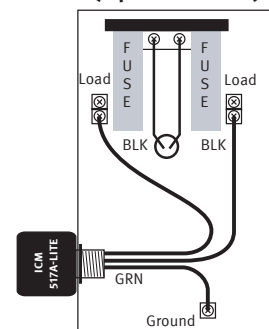


WIRING DIAGRAM (240 VAC)

**Indoor Installation
(240 VAC Shown)**



**Outdoor Installation
(240 VAC Shown)**



KEY

BLK	Black/120V	GRN	Green/Ground	WHT	White/Neutral
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LIMITED LIFETIME PROTECTION WARRANTY

For warranty information and registration, please go to www.icmcontrols.com and click on **Warranty Registration**.

7313 William Barry Blvd., North Syracuse, NY 13212
www.icmcontrols.com



800.365.5525

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