INSTALLATION INSTRUCTIONS
KONSTRUKT - REMOTE CPU
S2CPU-R096-S, S2CPU-R150-S, S2CPU-R320-S, S2CPU-R600-S

KONSTRUKT
BY WAC

CAUTION: TO PREVENT ELECTRICAL SHOCK, ENSURE ELECTRICITY HAS BEEN TURNED OFF AT THE CIRCUIT BREAKER BEFORE BEGINNING.
- Read all instructions before installing.
- System is intended for installation by a licensed electrician in accordance with the National Electrical Code (NEC) and local regulations.
- Retain installation instructions for future maintenance reference.
- KONSTRUKT fixtures and channels feature separate data and power conductor systems. During installation and use, do not short the data or power conductors together by any means or damage may occur.

WARNING: All parts must be used as indicated in these instructions. This product is designed for use only with the supplied parts and/or accessories designated for use by WAC Lighting. Substitution of parts or accessories not designated for use with this product by WAC Lighting could result in personal injury or property damage, and will void the warranty. Contact an authorized dealer or the manufacturer if any parts are damaged or missing.

MISE EN GARDE: POUR ÉVITER TOUT CHOC ÉLECTRIQUE, ASSUREZ-VOUS QUE LE DISJONCTEUR SOIT MIS HORS TENSION AVANT DE COMMENCER.
- Lisez toutes les instructions avant l'installation.
- Le système doit être installé par un électricien licensié conformément au code national de l'électricité (NEC), et également aux règlements locaux.
- Lors de la manipulation du luminaire, n'appuyez pas sur les LED. Tenez-le uniquement par la base.

ATTENTION: Toutes les pièces doivent être utilisées comme indiqué dans ces instructions. Ce produit est conçu pour être utilisé seulement avec les pièces et/ou accessoires fournis pour être utilisés avec les produits WAC Lighting. Remplacer des pièces ou accessoires non conçus pour ce produit WAC Lighting pourrait causer des dommages corporels ou matériels et pourrait également causer l'annulation de la garantie. Veuillez contacter un revendeur autorisé ou le fabricant si des pièces manquent ou sont endommagées.
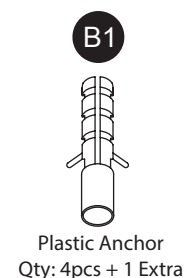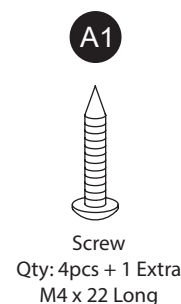
OVERALL FIXTURE DIMENSIONS

12″
6¼″
Ø⅞″ Knockout (8) typical
2″

S2CPU-R096, R150

13⅝″
9⅞″
Ø⅞″ Knockout (8) typical
2⅜″
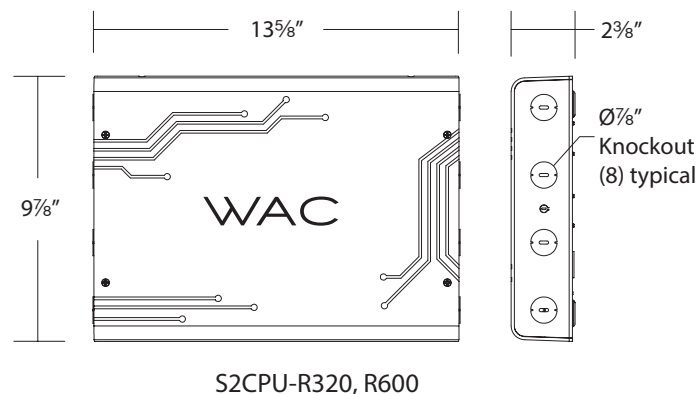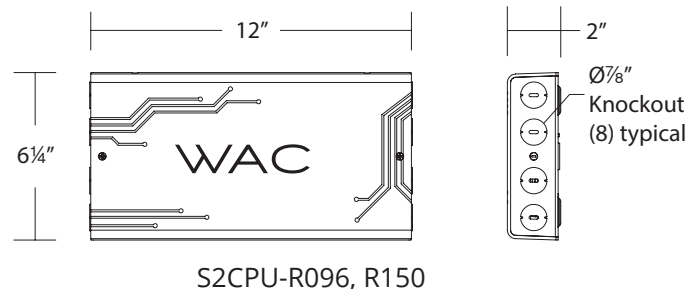
S2CPU-R320, R600

FIXTURE OVERVIEW

KONSTRUKT Remote CPU is intended for use on WAC Lighting's KONSTRUKT Channel systems.

CPU	KONSTRUKT SYSTEM
S2CPU-R096-S, S2CPU-R150-S, S2CPU-R320-S, S2CPU-R600-S	*48VDC KONSTRUKT System*

SPECIFICATIONS	
Input:	120-277 VAC, 50/60 Hz
Installation:	Surface
Dimming:	ELV/TRIAC, 0-10V, Compatible with WAC App (WiFi 802.11 b/g/n, 2.4GHz)

A1
Screw
Qty: 4pcs + 1 Extra
M4 x 22 Long
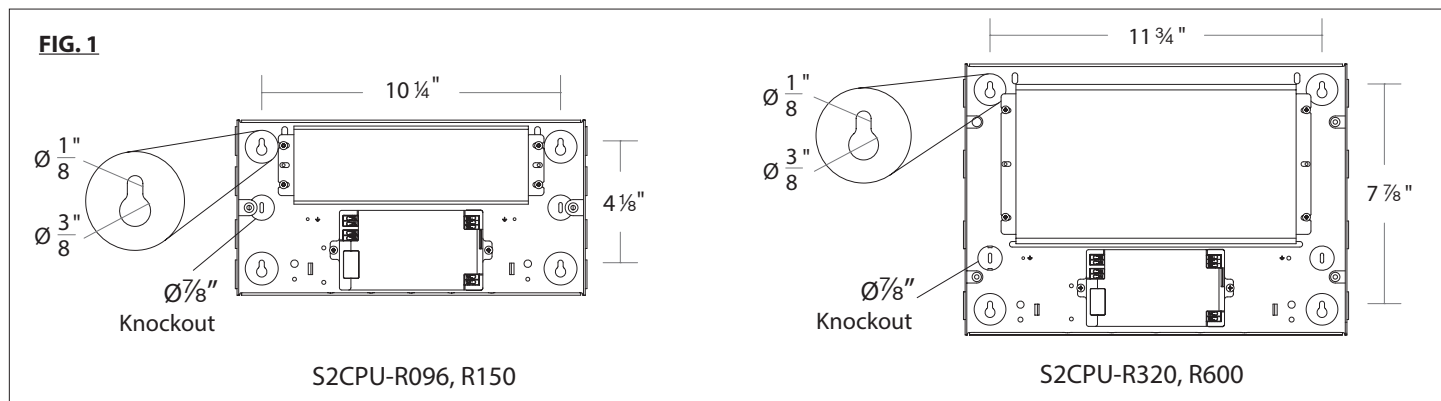
B1
Plastic Anchor
Qty: 4pcs + 1 Extra

INSTALLATION INSTRUCTIONS
KONSTRUKT - REMOTE CPU
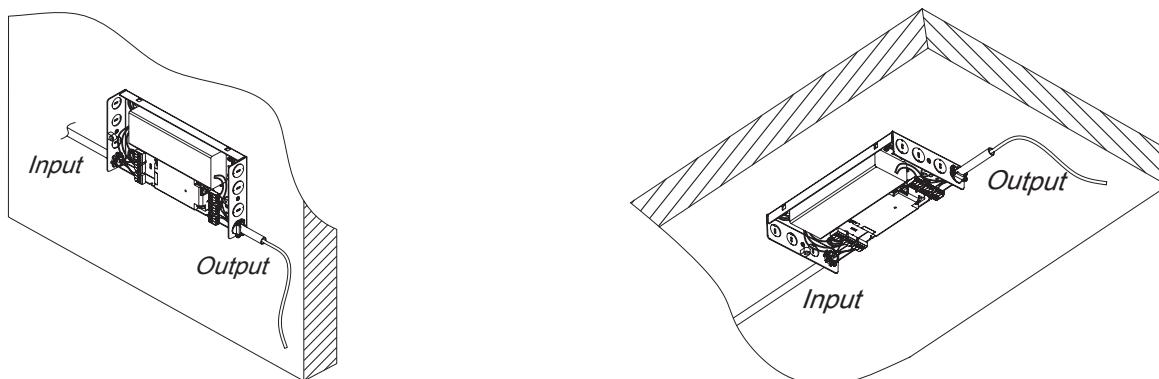S2CPU-R096-S, S2CPU-R150-S, S2CPU-R320-S, S2CPU-R600-S

KONSTRUKT
BY WAC

WALL AND CEILING MOUNT

FIG. 1

10 ¼ "

Ø $\frac{1}{8}$ "

Ø $\frac{3}{8}$ "

Ø⅞" Knockout

4 ⅛ "

S2CPU-R096, R150

11 ¾ "

Ø $\frac{1}{8}$ "

Ø $\frac{3}{8}$ "

Ø⅞" Knockout

7 ⅞ "

S2CPU-R320, R600

1. Remove CPU cover. Select wall or ceiling mounting position. Follow CPU key hole locations (See **FIG. 1**).

FIG. 2

A1 Screw

B1 Plastic Anchor

Plastic Anchor B1

Screw A1
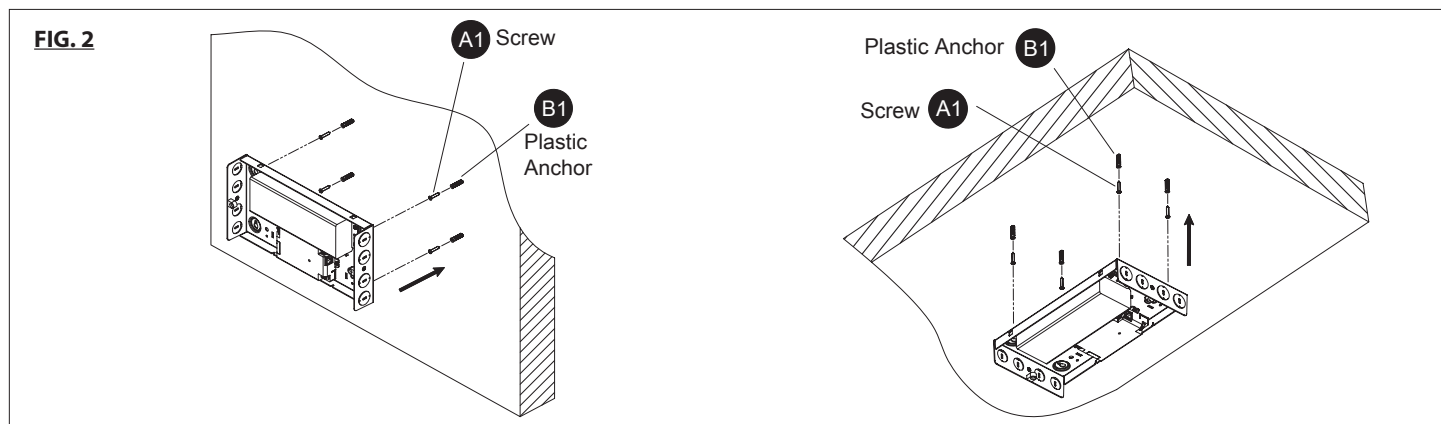
2. Install appropriate mounting hardware. Installer to select appropriate hardware and confirm appropriate installation means to meet project requirements. (See **FIG. 2**).
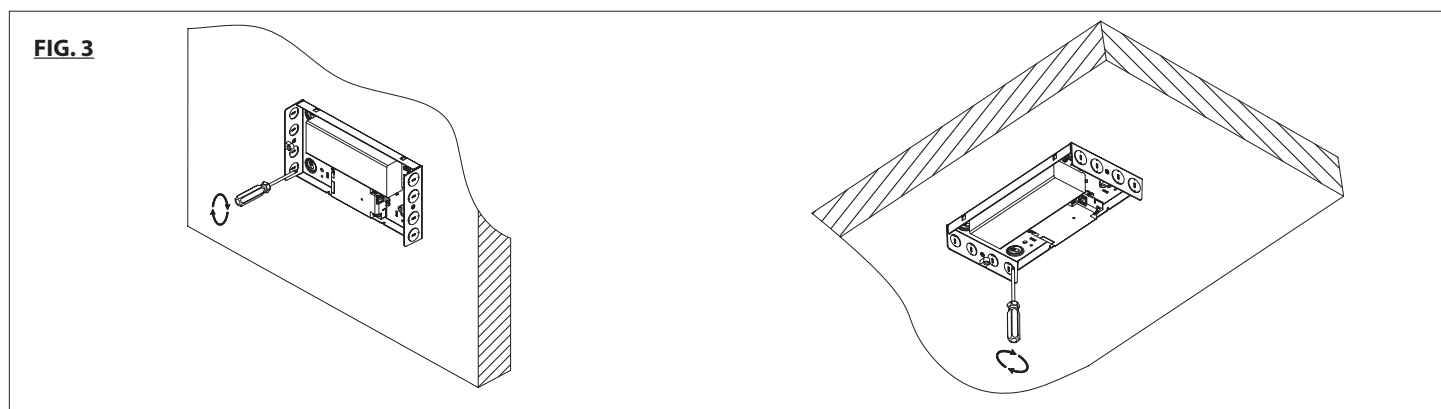
FIG. 3

3. With appropriate mounting hardware installed, install CPU keyholes onto hardware. Tighten hardware in small diameter section of key hole and confirm CPU is secure (See **FIG. 3**).
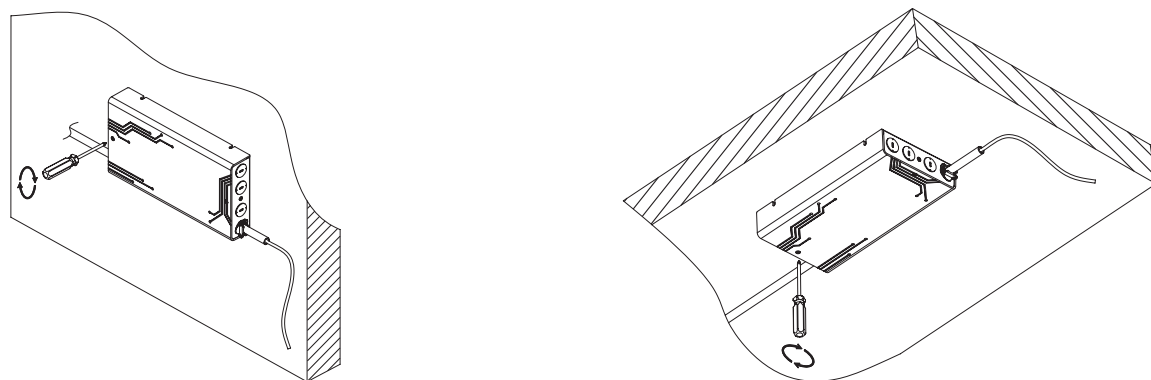
FIG. 4

4.   Install appropriate conduit feeds for input and output wiring of CPU via CPU knockouts. (See **FIG. 4**). Reference wiring diagrams (See **FIG. 6-9**).

FIG. 5

5.   Reinstall CPU cover. (See **FIG. 5**)

waclighting.com
Phone (800) 526.2588
Fax   (800) 526.2585

Headquarters, East Manufacturing Facility
44 Harbor Park Drive
Port Washington, NY 11050

South East Manufacturing Facility
1600 Distribution Ct
Lithia Springs, GA 30122

Central Manufacturing Facility
1700 South J Elmer Freeway, Ste 100
Cedar Hill, TX 75104

West Manufacturing Facility
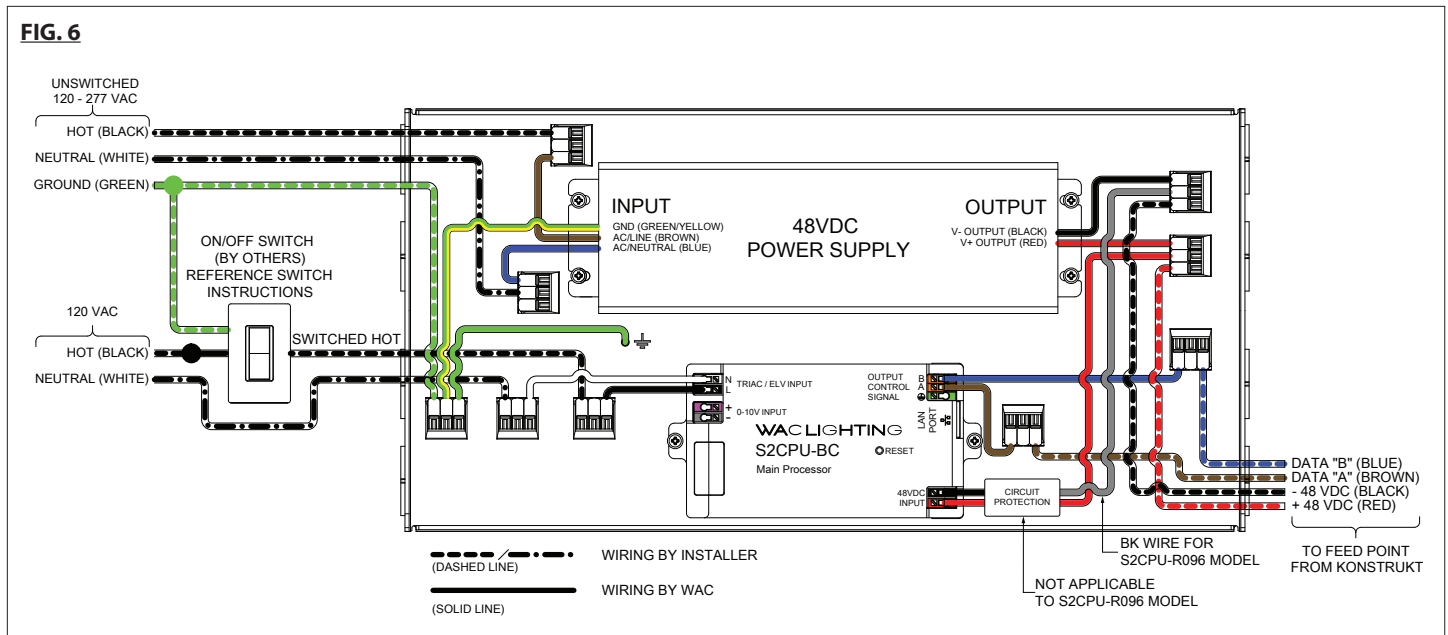1750 S Archibald Ave
Ontario, CA 91761

WAC Lighting retains the right to modify the design of our products at any time as part of the company's continuous improvement program. MAR 2024   3
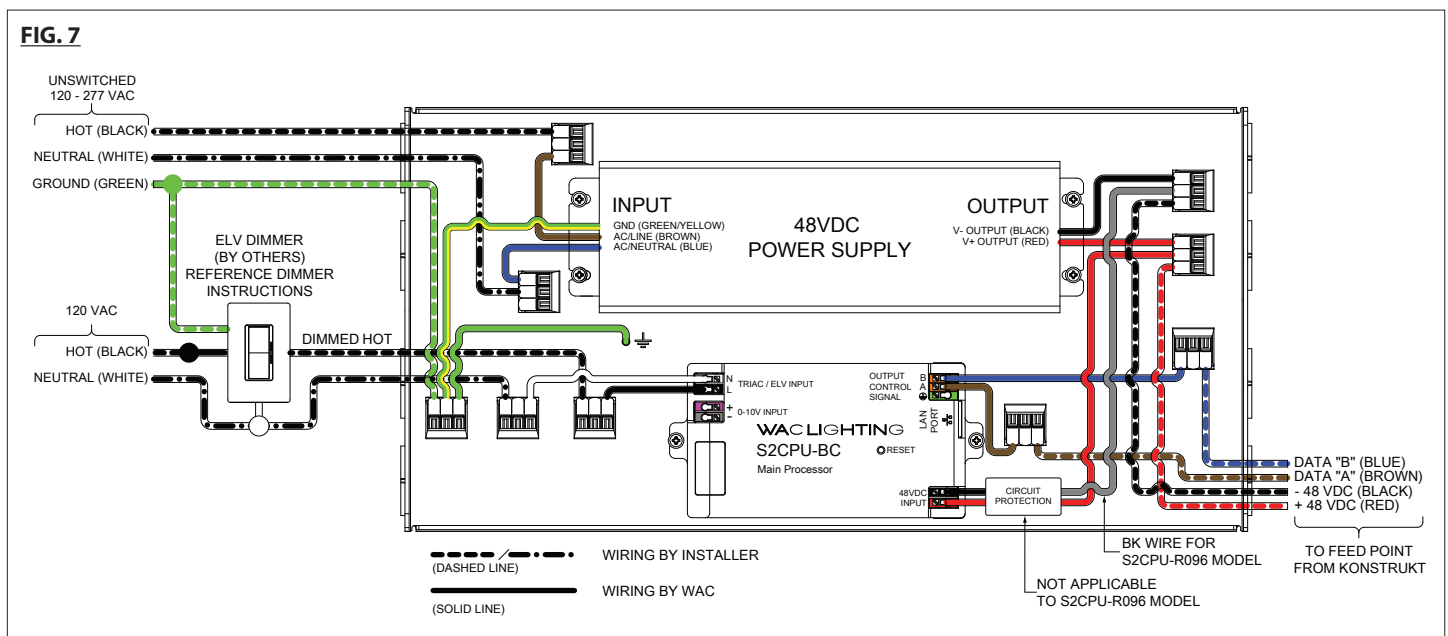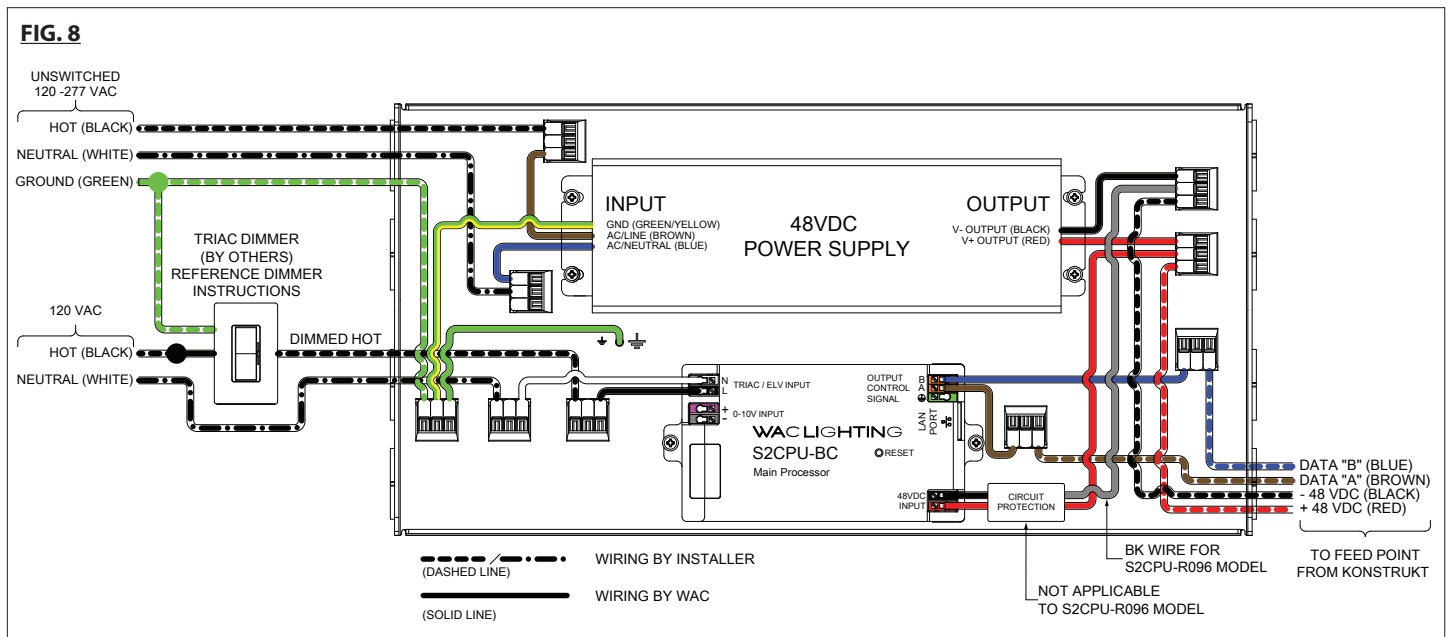
Figure 6 Remote CPU with On/Off Switch Wiring Diagram

FIG. 6

To utilize on/off switch, connect SWITCHED HOT and NEUTRAL in accordance to switch specifications to the wire connectors leading to the "L" and "N" inputs of the S2CPU-BC processor. Ensure appropriate ground connection is made to the on/off switch.

Figure 7 Remote CPU with ELV Dimmer Wiring Diagram

FIG. 7

To utilize an ELV dimmer, connect DIMMED HOT and NEUTRAL in accordance to dimmer specifications to the wire connectors leading to the "L" and "N" inputs of the S2CPU-BC processor. Ensure appropriate ground connection is made to the ELV dimmer.

WAC Lighting retains the right to modify the design of our products at any time as part of the company's continuous improvement program.   MAR 2024

Figure 8 Remote CPU with TRIAC Dimmer Wiring Diagram

To utilize a TRIAC dimmer, connect DIMMED HOT and building NEUTRAL in accordance to dimmer specifications to the wire connectors leading to the "L" and "N" inputs of the S2CPU-BC processor. Ensure appropriate ground connection is made to the TRIAC dimmer.

Figure 9 Remote CPU with Single Input 0-10V Dimmer Wiring Diagram
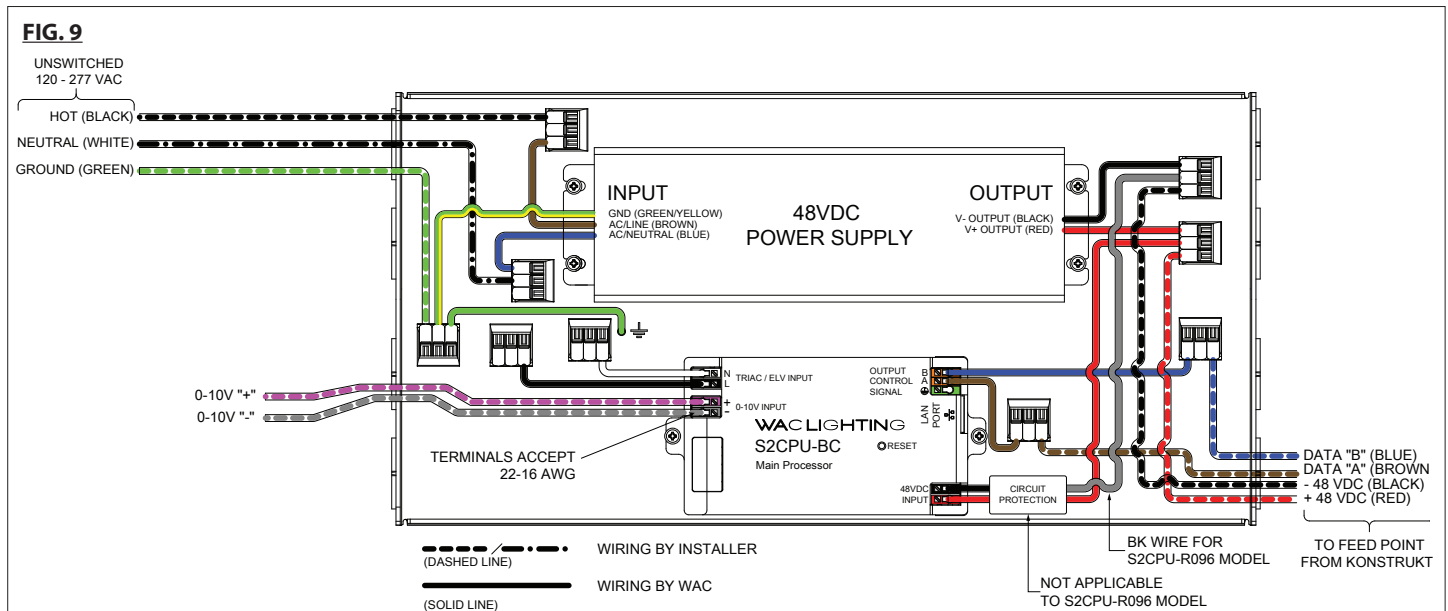
To utilize a single channel 0-10V dimmer, connect 0-10V "+" and 0-10V "-" wires in accordance to dimmer specifications directly to the "+" and "-" input terminals of the S2CPU-BC processor.
Note: Use either 0-10V or ELV/TRIAC control input. Do NOT use multiple control input types concurrently.

With this wiring setup, the line voltage power is constantly supplied to the KONSTRUKT CPU and the toggle on /off mechanism of the controls (by others) is to bring the 0–10 V signal to 0 V when in the off position.

Figure 10 Remote CPU with RJ45 Ethernet Wiring Diagram
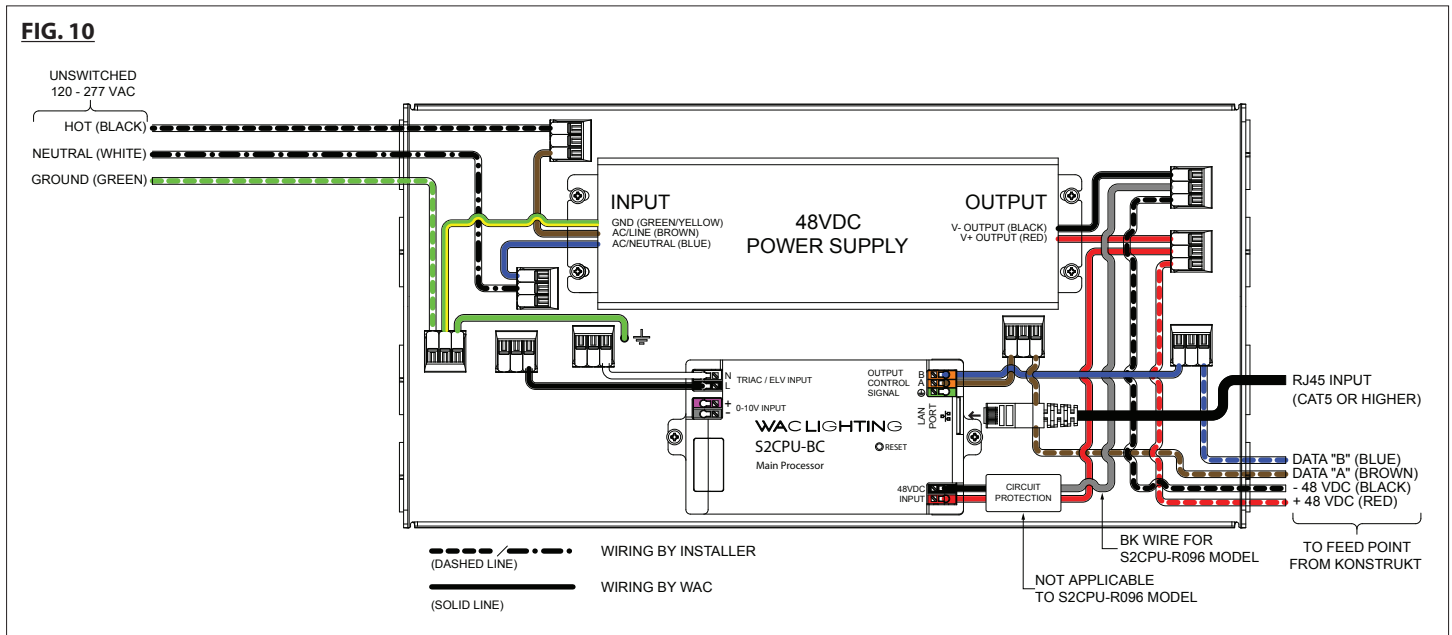
To utilize a RJ45 wired ethernet input, connect the RJ45 cable to the LAN PORT of the S2CPU-BC processor. WAC recommends a minimum cable type of CAT5.

CONFIGURE KONSTRUKT WITH WAC APP

In addition to compatibility with building controls, you can configure and control your KONSTRUKT installation through the WAC App.
To use the WAC App, download it for free from the App Store (iOS) or Google Play (Android).

WAC Lighting retains the right to modify the design of our products at any time as part of the company's continuous improvement program. MAR 2024

TROUBLESHOOTING

KONSTRUKT Installation Does Not Power ON

1. Check main and branch circuit fuses or circuit breakers.
   CAUTION: Make sure the main power is turned OFF, while inspecting connections to breaker.
2. Check line wire connections to KONSTRUKT CPU and switch wire connections in the switch housings, where applicable.
3. Check low voltage control wire connections to KONSTRUKT CPU and ensure proper functionality of control devices, where applicable.
Once connections are confirmed

Performing Power Cycle on KONSTRUKT CPU

Power cycling is the act of temporarily removing the power source to the KONSTRUKT CPU. Use the circuit breaker connected to the KONSTRUKT CPU is connected, by toggling it OFF for 10 seconds and back ON.

Performing KONSTRUKT CPU Factory Reset

Factory Reset is a restoration of the KONSTRUKT CPU and any connected fixtures to original factory setting. This can be achieved by the following steps:
1. Open the KONSTRUKT CPU case by loosening the cover screws.
2. Press and hold the RESET button located on the inside S2CPU-BC processor for 3 seconds, while the KONSTRUKT CPU remains powered.
3. Release the RESET button, and allow at least 30 seconds for the S2CPU-BC processor to reboot. A successful reset and reboot may be indicated by KONSTRUKT functionality of wired controls and broadcasting of the KONSTRUKT CPU Wi-Fi/SSID for connection.
4. Reinstall the KONSTRUKT CPU case cover.

NOTE: A factory reset will also disconnect the KONSTRUKT CPU from any previously connected Wi-Fi network and will require re-configuration via the WAC App.

KONSTRUKT CPU WiFi/SSID (WAC_KST_XXXXXX) Does Not Appear During Pairing

If the KONSTRUKT CPU had been previously paired, the Wi-Fi radio will be OFF.
1. To turn on Wi-Fi, see above section "Performing KONSTRUKT CPU Factory Reset"
2. After Factory Reset has been performed, the KONSTRUKT CPU Wi-Fi/SSID broadcast will appear for connection.

Building WiFi/SSID Does Not Appear in WAC App for Pairing

The KONSTRUKT CPU supports WiFi connection with 2.4GHz 802.11 b/g/n networks.
1. Confirm your network is compatible by checking your router/wireless access point settings or contact your router/wireless access point manufacturer.
2. Ensure your network's SSID is not hidden.
3. The KONSTRUKT CPU does not support 5GHz connectivity or 5GHz WiFi networks.

KONSTRUKT CPU Not Connecting After Building WiFi/SSID Update

If a change is made to the building Wi-Fi network configuration and the KONSTRUKT CPU is unable to connect to the network, it will re-enable its access point mode. To reconfigure Wi-Fi, use the WAC App.