

INSTALLATION INSTRUCTIONS

KONSTRUKT - Wall and Soffit Mounted Channel

S2CPS01, S2CPS01.5, S2CPS04, S2CPS06, S2CPS08, S2CPS12

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 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.

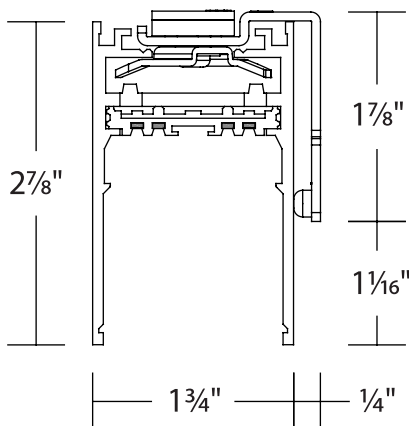
- Lisez toutes les instructions avant l'installation.
- Le système doit être installé par un électricien licencié conformément au code national de l'électricité (NEC), et également aux règlements locaux.
- Lors de la manipulation du luminaire, n'appuyez pas sur les LED. Tenez-le uniquement par la base.

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.

COMPONENT OVERVIEW

KONSTRUKT wall and soffit mount channels and hardware are intended for use with WAC Lighting's KONSTRUKT system. They may be installed to gypsum board or concrete walls and soffits (mounting hardware by others). Reference specific KONSTRUKT components instructions for complete system installation.

OVERALL COMPONENT DIMENSIONS



SPECIFICATIONS

Input:	48 VDC (Maximum 12.5A), Data via KONSTRUKT CPU
Installation:	IC, Dry Location, Gypsum or Concrete Wall or Soffit

*Do not install concealed or extended through building walls.

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KONSTRUKT WALL AND SOFFIT CHANNEL SAMPLE LAYOUT

CHOOSE YOUR CHANNELS AND CONNECTORS

- Power feed from end with S2CP-FE or S2C-WB-FEB, or from the middle with S2CP-FI to energize your run.
- Support KONSTRUKT in wall and soffit applications with the S2C-WB mounting bracket. Minimum two supports per up to 4 ft section. Minimum three supports per 6 ft, 8 ft, and 12 ft section.
- For patterns, use the L, T, corners. I connectors sold separately. L and T connectors have a switch to maintain pattern polarity.

Note: KONSTRUKT is field cut at end of run or between channels using below bus bar connector S2C-IB. For patterns and custom length channels, consult factory.

CHOOSE YOUR ELEMENTS

- Refer to element specifications to appropriately select elements. Indirect lighting not compatible with wall and soffit mount KONSTRUKT.
- Total the wattage of the system.

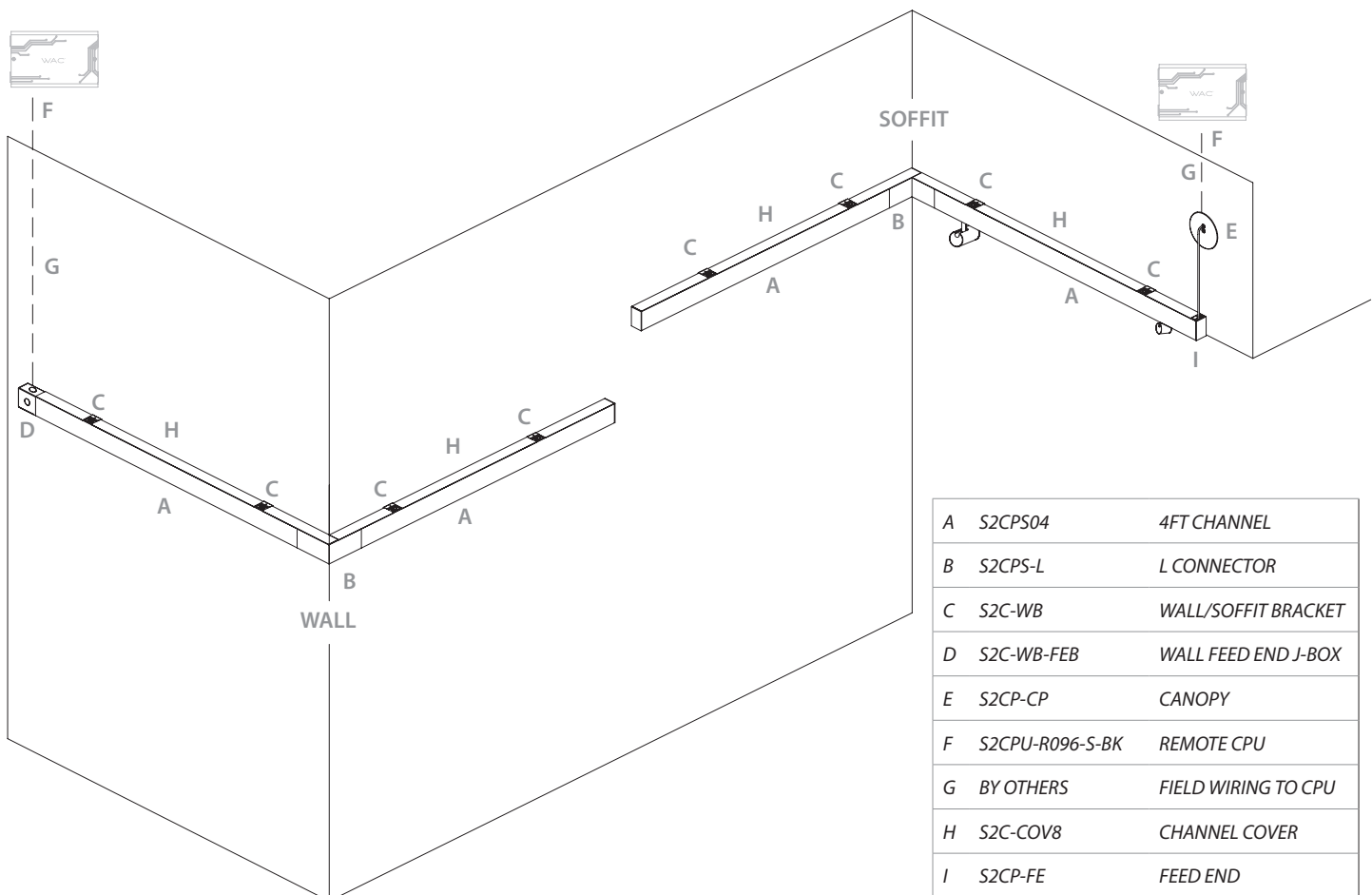
CHOOSE YOUR CONNECTED POWER UNIT (CPU)

- Select remote mount or surface mount CPU (using side knock out provisions).
- Select appropriate wattage based on total system wattage.

Note: Recommended sizing up as feasible for increased system capability.

ACCESSORIZE

- Add channel covers, lenses, or glare control accessories as desired.



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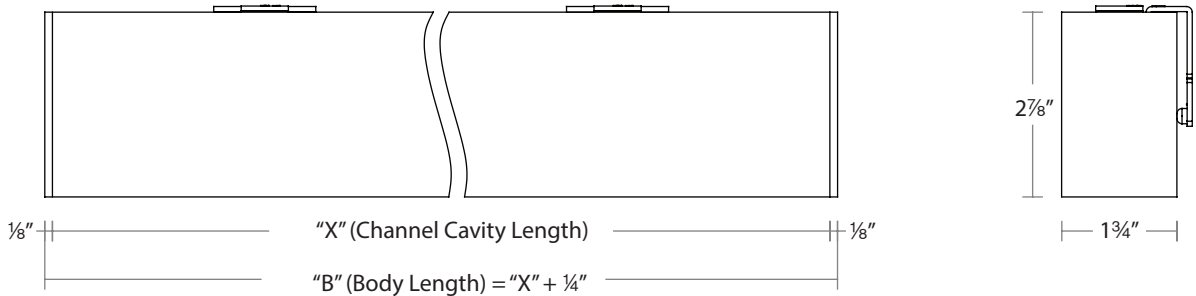
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FIG. 1: OVERALL DIMENSIONS

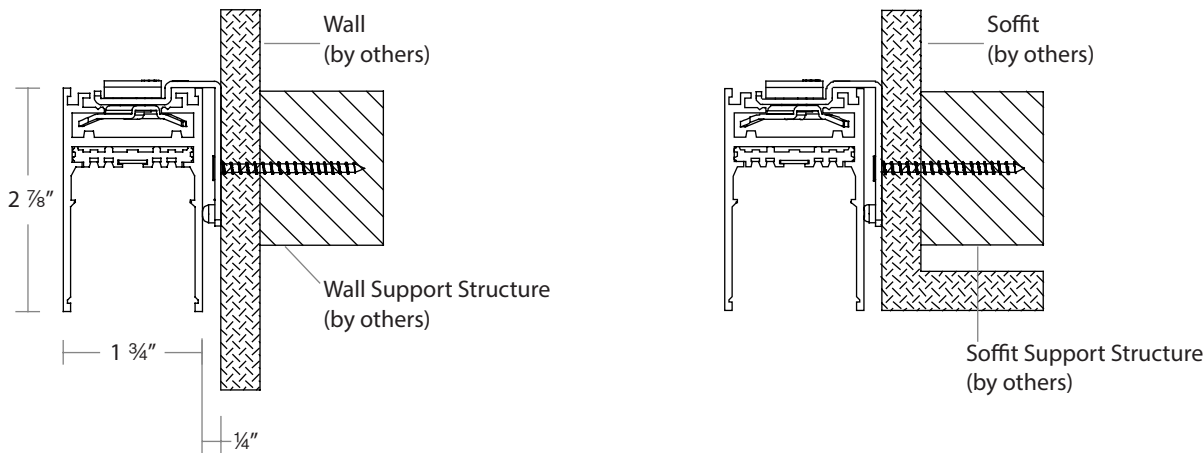


* Shown with S2c-WB bracket installed (Sold Separately)

Individual Dimensions		
Model	"X" Channel Cavity Length	"B" Body Length
S2CPS01	12"	12 1/4"
S2CPS01.5	18"	18 1/4"
S2CPS04	48"	48 1/4"
S2CPS06	72"	48 1/4"
S2CPS08	96"	96 1/4"
S2CPS12	144"	144 1/4"

CONTINUOUS RUN OF CHANNEL DIMENSIONS		
BODY LENGTH "B" = "X" + 4"		
Example 8' + 12' RUN	"X" Channel Cavity Length	"B" Body Length
	240"	240 1/4"

FIG. 2: WALL AND SOFFIT MOUNTING OPTIONS OVERVIEW



Minimum recommended number of support points per channel					
S2CPS01	S2CPS01.5	S2CPS04	S2CPS06	S2CPS08	S2CPS12
2	2	2	3	3	3

1. KONSTRUKT Wall and Soffit Channels are to be installed to walls or soffits via support structure (See FIG. 2). Installer to confirm appropriate installation means to meet project requirements.

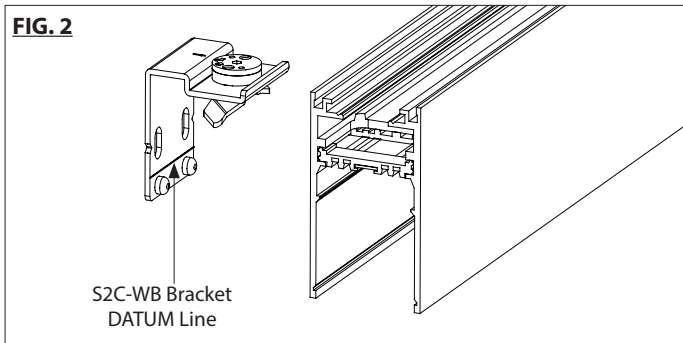
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FIG. 2



S2C-WB Wall and Soffit Bracket Installation:

It is important to vertically locate the mounting position of the KONSTRUKT channel before installation:

1. The S2C-WB bracket features a DATUM line that is centered to the height of the KONSTRUKT Channel (See **FIG. 2**).
2. Measure the distance from the floor, to the intended center for the KONSTRUKT channel and align this measurement with the DATUM line of the S2C-WB bracket. Alternatively, to determine the vertical location of the channel base, subtract $1\frac{7}{16}"$ from distance between the bracket DATUM line and the floor (See **FIG. 3**).

FIG. 3

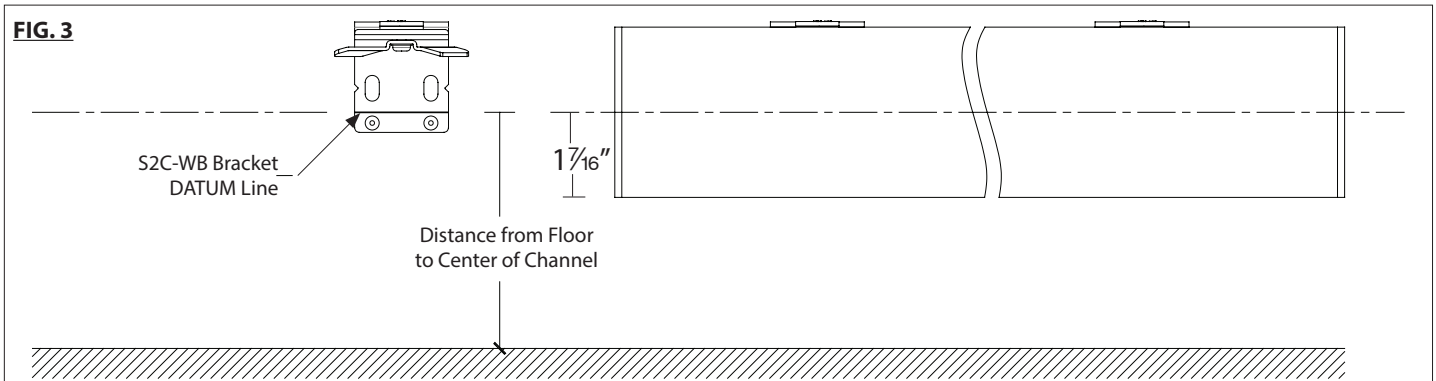
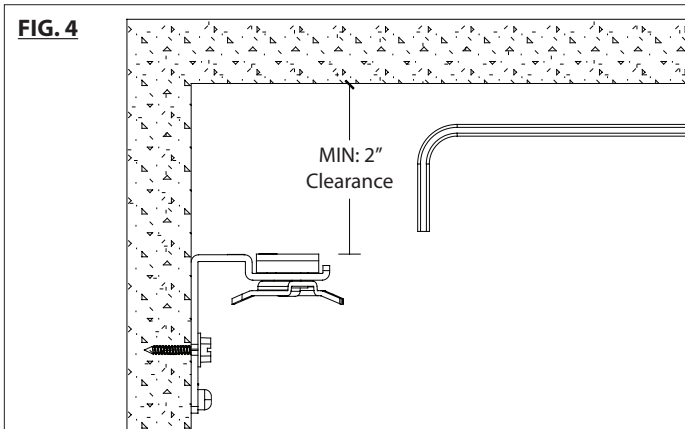
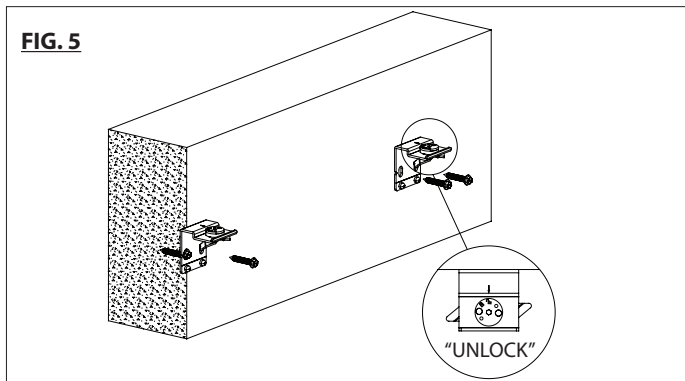


FIG. 4



NOTE: A minimum clearance of 2" MUST be maintained between the top of the bracket and adjacent ceiling to allow for channel installation and maintenance. (See **FIG. 4**).

FIG. 5



3. Using mounting hardware (supplied by others), install the bracket to the structural support of gypsum board wall and soffit installations or directly to concrete walls and soffits. Ensure the locking tabs of the bracket are parallel to direction of the channel and the dial of the bracket is set to the "UNLOCK" position (See **FIG. 5**).

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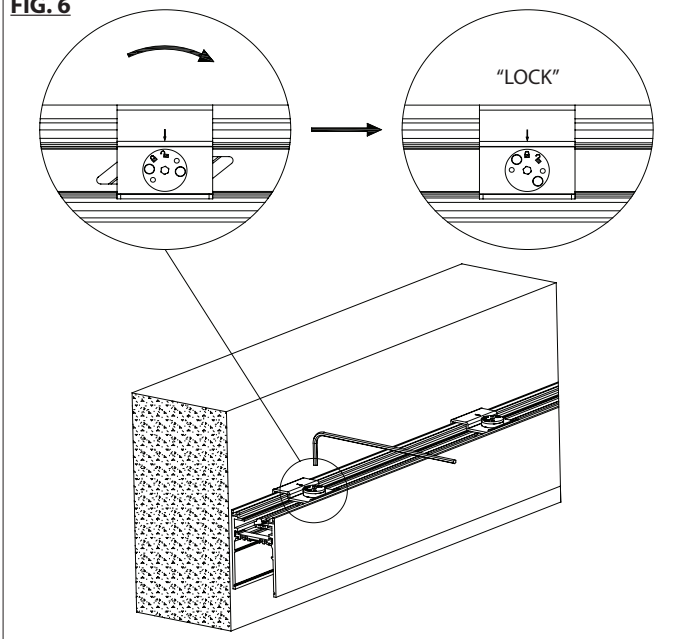
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FIG. 6



4. Raise the channel to these brackets. Ensure at least two points of bracket support are installed. Using a M3 Allen wrench (supplied with KONSTRUKT channel), rotate the dial of the bracket clockwise (CW) to engage the "LOCK" position (See FIG. 6).

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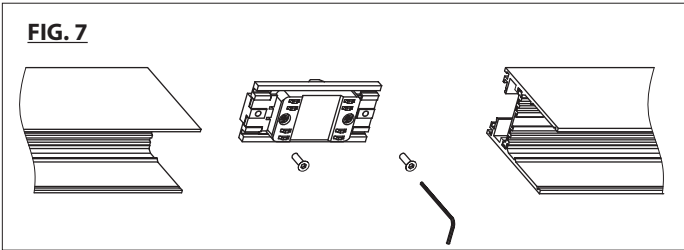
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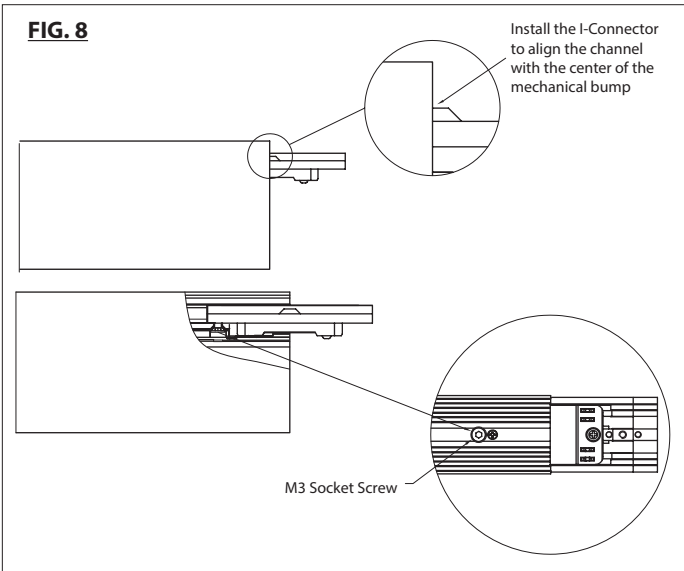
FIG. 7



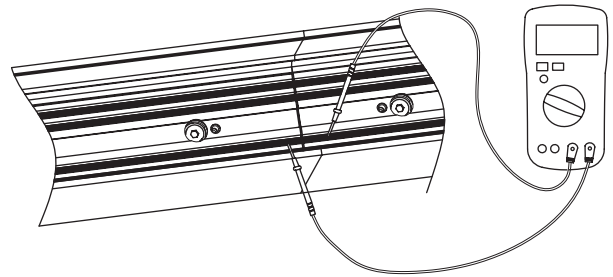
Channel to channel connection (Factory channel ends for uninterrupted bus bar)

1. Join channel sections mechanically and electrically with I connector (See **FIG. 7**).

FIG. 8

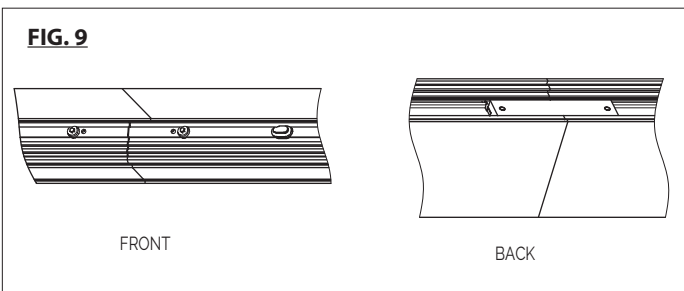


2. Insert I connector into one channel. Be sure I connector is fully inserted with mechanical bump aligned. A gentle tap with a rubber mallet may be necessary. Insert socket screw straight and gently tighten. Take caution not to strip threads. Note: Use of power tools not recommended (See **FIG. 8**).



Note: Confirm continuity across each of the 4 bus bars after I connector is secured and prior to completing installation.

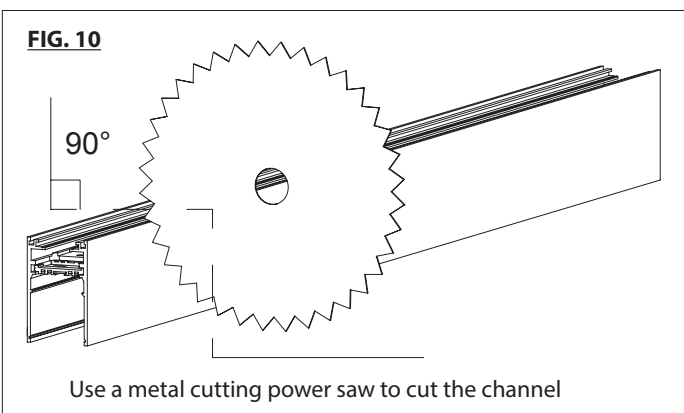
FIG. 9



3. Repeat for other side. Lock I connector with screws from bottom of channel.

Note: Use of power tools not recommended (See **FIG. 9**).

FIG. 10



Channel Cutting

1. Last channel in a run can be field cut to terminate the run. Use a chop saw with good condition blade rated for metal cutting. Confirm cut is perpendicular and remove any burrs or filings. Reattach end cap (See **FIG. 10**).

Note: Field cuts result in end of run condition and accepts end caps. Cut ends are not compatible with general channel connectors.

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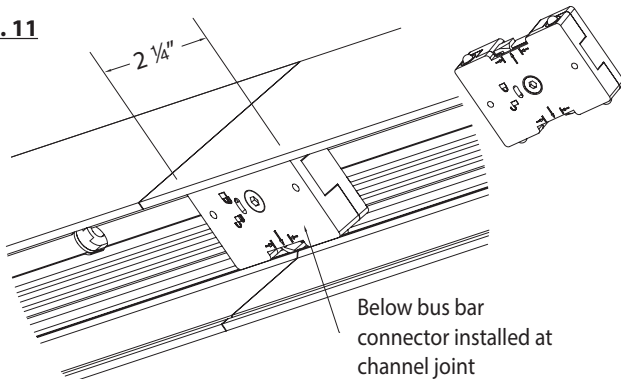
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FIG. 11

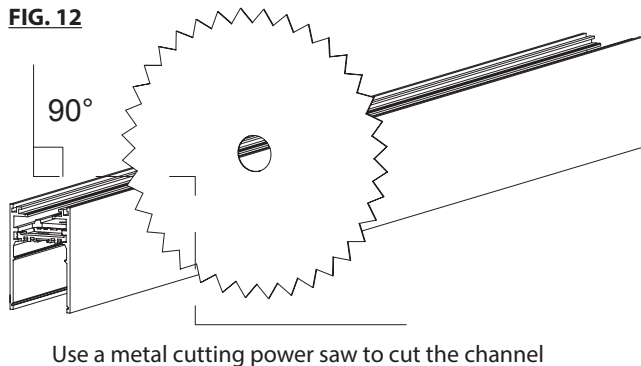


Channel to channel connection (Field cut channel end(s) for interrupted bus bar)

1. If necessary to field cut channel at channel to channel connection, it is possible to create joint mechanically and electrically using below bus bar I connector kit S2C-IB-BK. Note: with this setup, a connector will be installed below bus bar plane which may interfere with installation of fixture elements. Confirm this will be acceptable in project prior to proceeding (See **FIG. 11**).

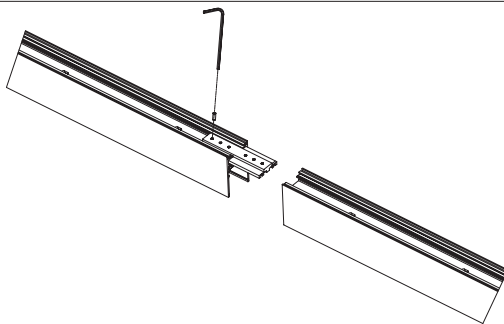
Note: Some 2' and 4' KONSTRUKT fixture elements can span below bus bar connector. Reference line drawings on spec sheets.

FIG. 12



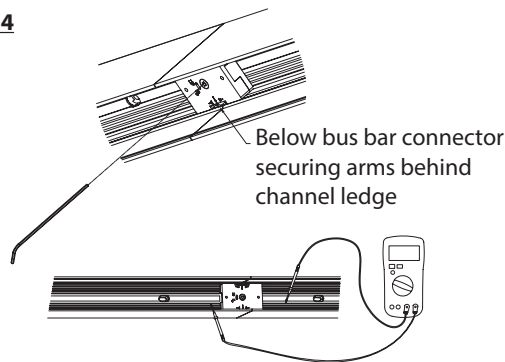
2. Field cut appropriate channel. Use a chop saw with good condition blade rated for metal cutting. Confirm cut is perpendicular and remove any burrs or filings. (See **FIG. 12**).

FIG. 13



3. Insert top connector (S2C-ID) into top side of channel. Position connector centered between channels and tighten all set screws. (See **FIG. 13**).

FIG. 14



4. To make electrical connection, insert below bus bar connector into bus bar at channel joint. Center the connector in the appropriate position (channel joint is between connector arrows) and push in firmly. Securing arms should be behind channel ledge. Then, tighten central screw to lock the connector in position. Confirm connector is mechanically secure and has electrical continuity across. (See **FIG. 14**)

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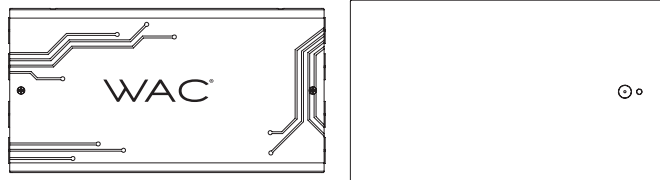
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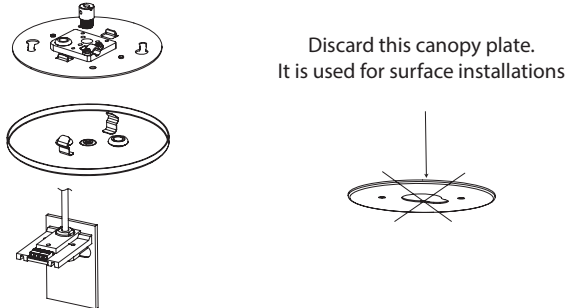
FIG. 15



Channel Feed

Wall and soffit mounted channel can be powered with Remote or Surface Mount KONSTRUKT CPU. Choose which is best to meet project requirements and follow CPU instruction details (See **FIG. 15**)

FIG. 16



Option A: Feed with Cable Suspension Installation

A1. Insert feed cable through canopy cover and canopy base (See **FIG. 16** & **FIG. 17**).

Note: S2CP-CP canopy kit comes with one canopy base and two canopy covers. For wall and soffit installations, the surface canopy can be discarded. (See **FIG. 16**)

FIG. 17

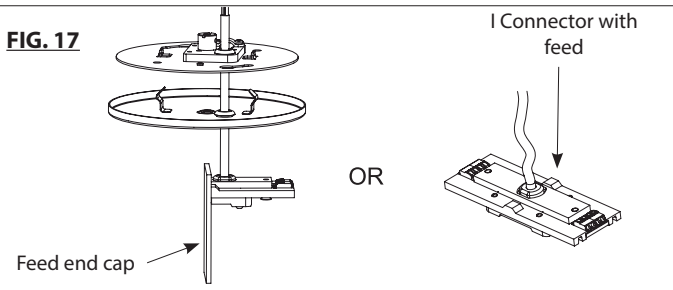


FIG. 18

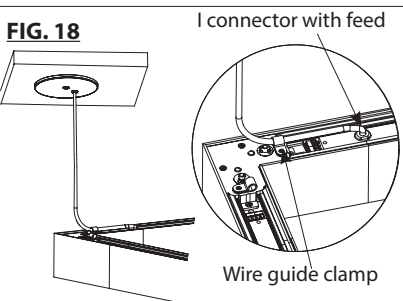
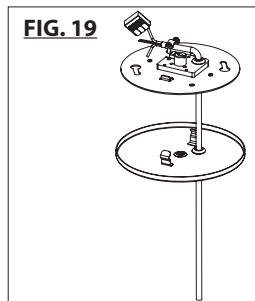


FIG. 19



A2. For patterns with feed desired to be located at L or T connector, use I connector with feed. (See **Fig 18**)

A3. Adjust the cable length for desired height of channel and secure with bracket to canopy base (See **FIG. 19**).

A4. Make wire connections between CPU and feed canopy. Install canopy base to ceiling junction box. Install canopy cover (See **FIG. 20** & **FIG. 21**).

FIG. 20

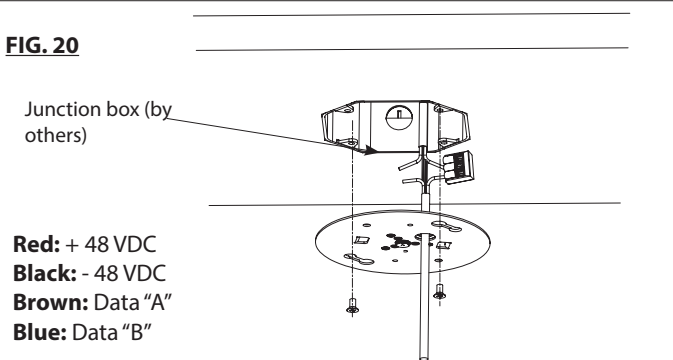
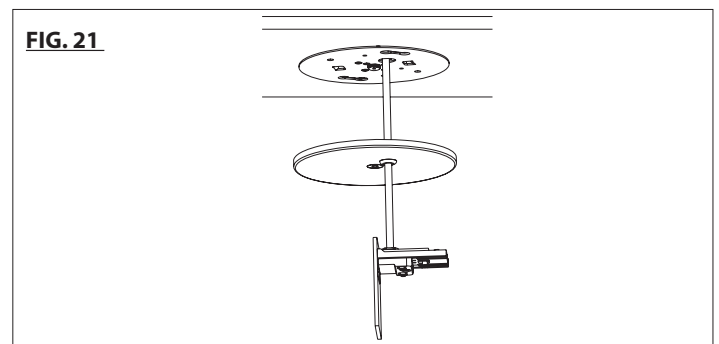


FIG. 21



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S2CPS01, S2CPS01.5, S2CPS04, S2CPS04, S2CPS08, S2CPS12

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FIG. 22

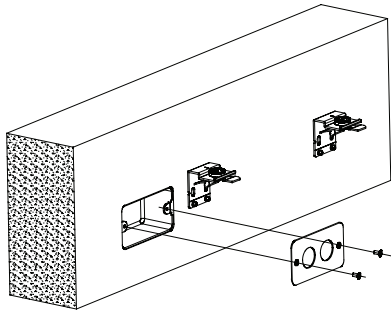


FIG. 23

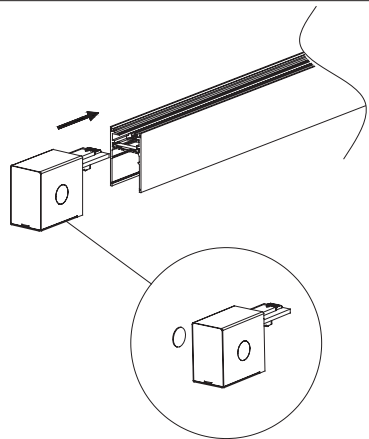
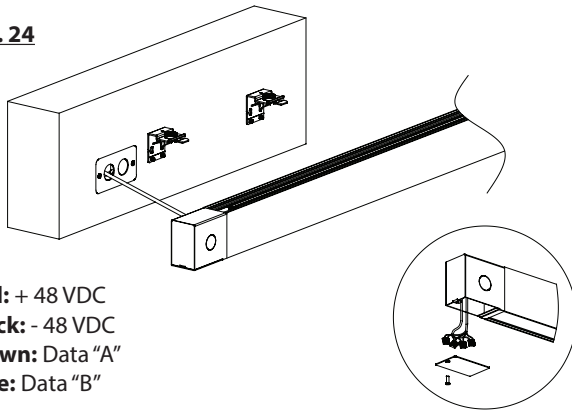
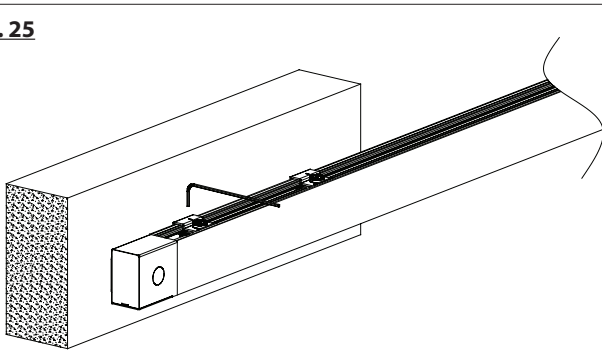


FIG. 24



Red: + 48 VDC
Black: - 48 VDC
Brown: Data "A"
Blue: Data "B"

FIG. 25



Option B: Feed with Wall Feed End Box (S2C-WB-FEB):

- B1. Appropriately locate and install a 2" x 4" power feed box (by others) with building wire connections. Use the supplied 2" x 4" junction box cover to cover the power feed box (See **FIG. 22**).

Note: The horizontal center of the power feed box is to be vertically aligned to the wall and soffit mounting bracket DATUM line and the center of the wall or soffit mounted channel.

- B2. Install the wall and soffit feed end box to the channel and remove knockout at the intended feed point of the box. (See **FIG. 23**).

- B3. Using appropriate hardware and fittings (by others), bring building wires into the wall feed end box and make wired connections using the supplied wires connectors. (See **FIG. 24**).

- B4. Raise the channel to these brackets. Ensure at least two points of bracket support are installed. Using a M3 Allen wrench (supplied with KONSTRUKT channel), rotate the dial of the bracket clockwise (CW) to engage the "LOCK" position (See **FIG. 25**).

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FIG. 26

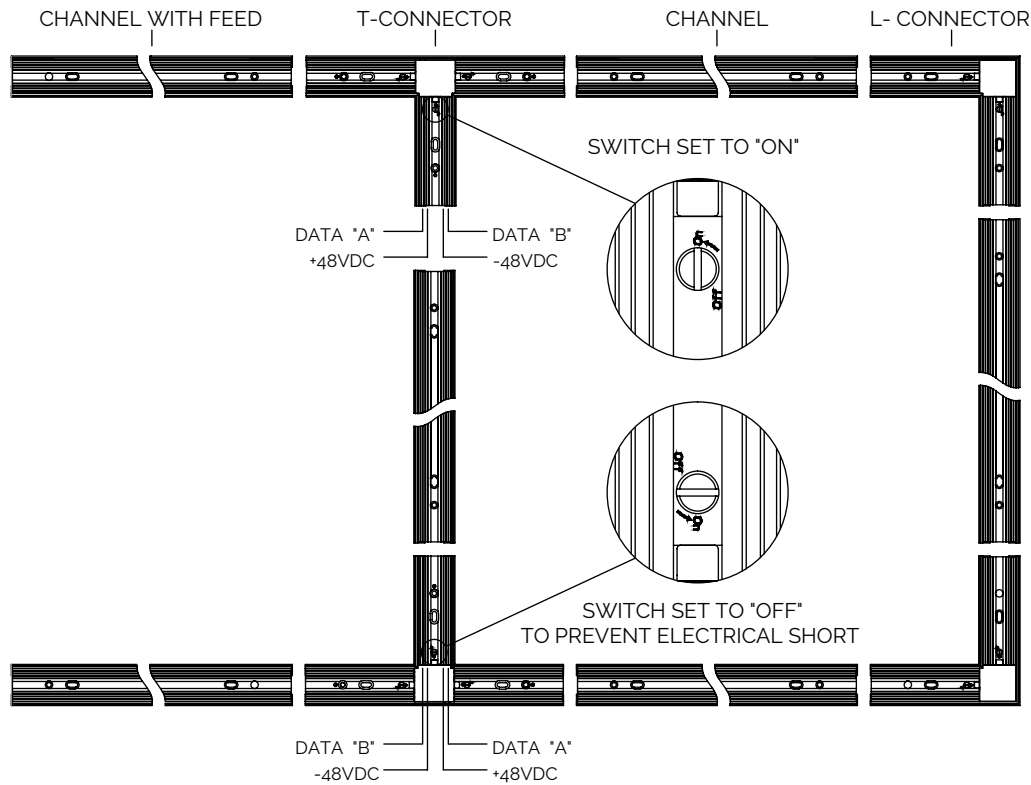


FIG. 27

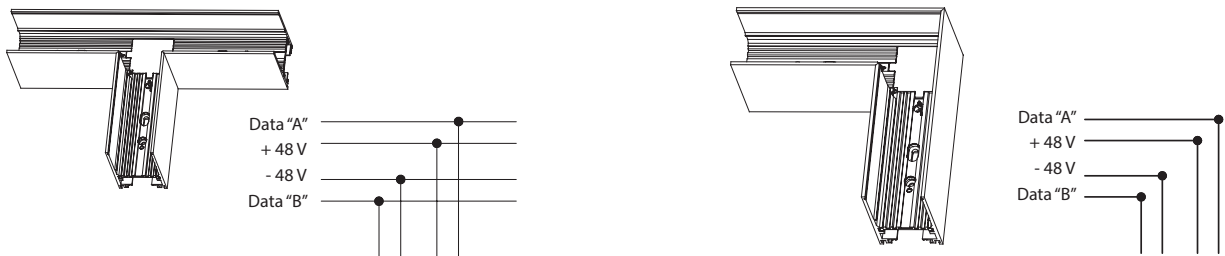


FIG. 28

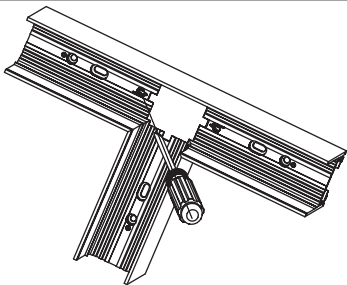
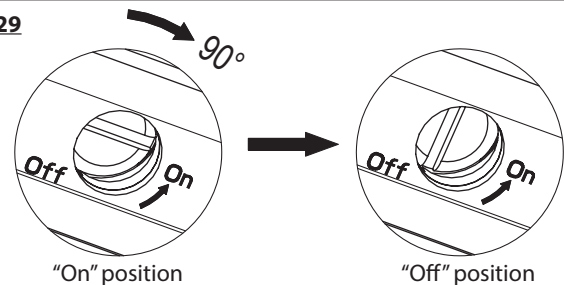


FIG. 29



Channels with Patterns

For channels consisting of patterns, it is important to confirm no electric short prior to energizing system. Review pattern and confirm if it is possible for short (See **FIG 26**, **FIG 27**) To avoid circuit short, there is a continuity switch on channel connectors. Where appropriate, use the a flat-blade screwdriver to align the slot with on and turn it 90° clockwise, to turn off and disconnect continuity from that leg (See **FIG. 28**, **FIG 29**).

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