

# Slots & Dots - TRL Track

48V Low Voltage Track, Low Profile, Recessed



PROJECT:

TYPE:

## Features

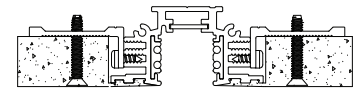
Slots & Dots, a 48V Track lighting system, connects all the dots for architects and lighting designers: color, comfort, controls and configurability. Slots & Dots is an easily configurable low voltage track lighting system that creates visual ambience for hospitality, residential, commercial and retail environments. Featuring surface, recessed or pendant mounting options, with easy light module in linear and accent that can be easily snapped in and out as needed. Slots are made up of linear modules to create visual interest, wall grazing and glare free accent. Dots deliver focused beams of light from either an accent pendant or surface mounted accent that bring items into focus.



SD-TRL

## Product Overview

Type: 48V Low Voltage Low Profile Recessed Track  
Circuit(s)/Amps: 1 circuit + Data Bus:  $\pm 15A/0-38V + D+/D-$   
Voltage: 48V  
Weight (lbs): 3.1 (4'), 6.2 (8')



## Certifications



## Specifications

### Application

48V power supply for Amerlux® Slots & Dots track lighting modules, 18AWG, 15 Amp.

### Construction

Architectural grade, extruded aluminum housing.  
Milled grounding bar provides continuous ground contact.  
Continuously crimped conductor ensures mechanical strength and electrical reliability.

### Finish

Black or White.

### Mounting

Recessed mounted, 5/8" max ceiling thickness.

### Certifications

cUL listed for dry locations only.

**NOTE:** For use with Amerlux Slots & Dots Linear (SLOTS) and Accent (DOTS) light modules.

See separate spec sheets for ordering light modules: [SLOTS spec](#); [DOTS spec](#)

# Slots & Dots - TRL Track

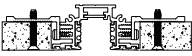
48V Low Voltage Track, Low Profile, Recessed



PROJECT:

TYPE:

## Track Ordering Information

| <div><div>1</div><div>2</div></div>                                                                                                                           |                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| 1 Model                                                                                                                                                                                                                                        | 2 Finish                         |
| <b>SD-TRL-4</b> recessed low profile track, 48"<br><b>SD-TRL-8</b> recessed low profile track, 96"<br><i>Note: All tracks are field cuttable. SD-TOOL is required for cutting track conductors (ordered separately, see Accessories below)</i> | <b>B</b> black<br><b>W</b> white |

## Component Ordering Information (ordered separately)

| <div><div>1</div><div>2</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                      |                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| 1 Model                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2 Finish                         |
| <b>End Cap</b><br>(1 required for each end of track run)<br><b>SD-EC-TL</b> end cap                                                                                                                                                                                                                                                                                                                                                                      | <b>B</b> black<br><b>W</b> white |
| <b>Connectors</b><br>(required to make electrical connection between tracks)<br><b>SD-CNS-POL</b> middle connector, polarized, straight<br><b>SD-CNS-M</b> middle connector, mechanical, non-electrical<br><b>SD-IVCJ-TRL</b> internal vertical mechanical corner joint<br><b>SD-HCJ-TRL</b> horizontal mechanical corner joint<br><b>SD-XF-POL*</b> flex connector, wall to ceiling, polarized<br><i>* Can be used as in-plane with variable angle.</i> |                                  |
| <b>End Feed</b><br>(1 live feed required for feed end of track)<br><b>SD-SF-L-POL</b> end feed, polarized, left, straight<br><b>SD-SF-R-POL</b> end feed, polarized, right, straight                                                                                                                                                                                                                                                                     |                                  |
| <b>Mounting Kits</b><br><b>SD-BR-314</b> track joining bracket for SD-TRD/TRL to provide mechanical connection. Qty 3 for straight connection, Qty 4 for corner joint.<br><b>SD-BR-315</b> - track mounting bracket for SD-TRL to sheetrock, 2 required every 18", no finish required<br><i>See Mounting example on page 5.</i>                                                                                                                          |                                  |
| <b>Accessories</b><br><b>SD-4BLANK-L</b> 48" blank to cover track without light module<br><b>SD-8BLANK-L</b> 96" blank to cover track without light module<br><b>SD-TOOL</b> cutting tool for track conductors                                                                                                                                                                                                                                           |                                  |
| <i>Note: All Blank sections are field cuttable.</i>                                                                                                                                                                                                                                                                                                                                                                                                      |                                  |

## Transformer Ordering Information (ordered separately)

| <div><div>1</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 1 Model                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| (Connect with 18AWG wire, plenum rated cable supplied, 30' max distance fixture to transformer, 120/277V input, 48V DC output)<br><b>TR-48V100W</b> 100W, 48V transformer with enclosure*, capable of providing 80W of power<br><b>TR-48V260W</b> 260W, 48V transformer with enclosure*, capable of providing 208W of power<br><b>TR-48V320W</b> 320W, 48V transformer with enclosure*, capable of providing 256W of power<br><i>* Enclosure size: 15 1/16" x 4 5/16" x 2 3/16"</i><br><i>Note: Ensure that the transformer does not exceed 80% of the total wattage in order to maintain its optimal performance.</i><br><i>See pg 5 for voltage drop &amp; max track length information.</i> |  |

# Slots & Dots - TRL Track

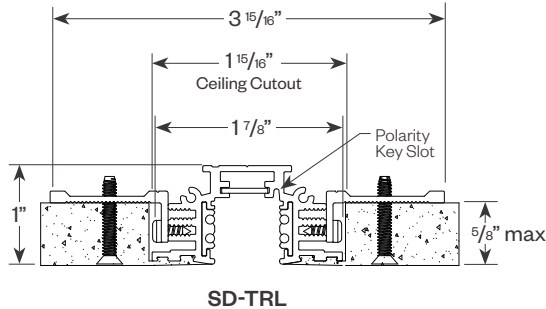
48V Low Voltage Track, Low Profile, Recessed



PROJECT:

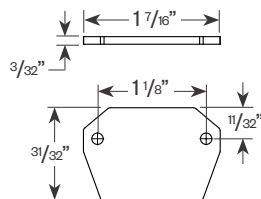
TYPE:

## Product Details - Track



## Component Details

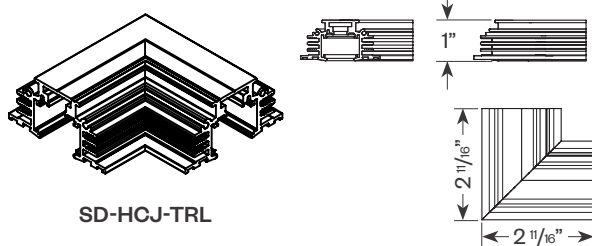
### End Caps



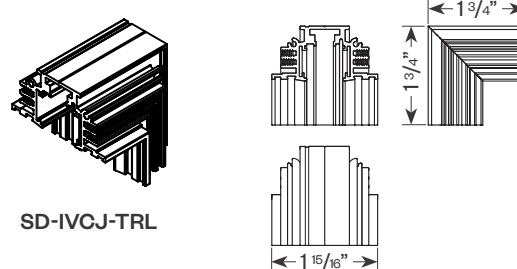
*(Required on each end  
of a track run)*

### Corner Joints

#### Horizontal Mechanical Corner Joint



#### Internal Vertical Mechanical Corner Joint



# Slots & Dots - TRL Track

48V Low Voltage Track, Low Profile, Recessed



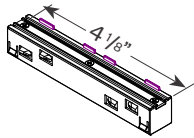
PROJECT:

TYPE:

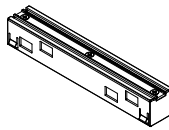
## Component Details *(continued)*

### Connectors

#### Middle Straight Connector



**SD-CNS-POL**  
Polarized

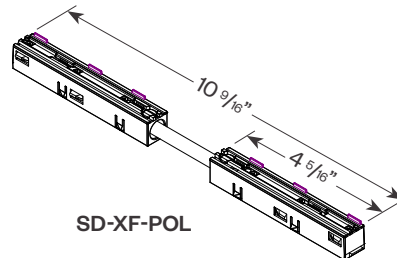


**SD-CNS-M**  
Mechanical  
(non-electrical)

*(Used to create dead ends in between two sections of track)*

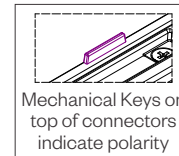
#### Flex Connector

*(Used for electrical connections for all corners)*



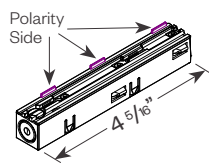
**SD-XF-POL**

#### Note:

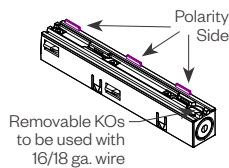


Mechanical Keys on top of connectors indicate polarity

### End Feed



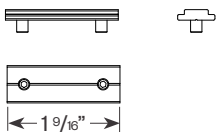
**SD-SF-L-POL**  
Left Polarity



**SD-SF-R-POL**  
Right Polarity

### Mounting Brackets/Kits

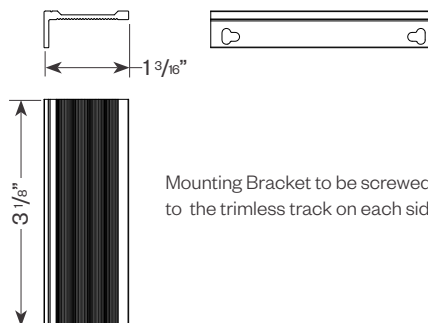
#### SD-BR-314



Reinforcement (Joining) Bracket to be used with straight connector and corners. This bracket will act as a mechanical connection for trimless track.

- (3) Required for straight connections.
- (4) Required for corner connections.

#### SD-BR-315



Mounting Bracket to be screwed to the trimless track on each side.



# Slots & Dots - TRL Track

48V Low Voltage Track, Low Profile, Recessed

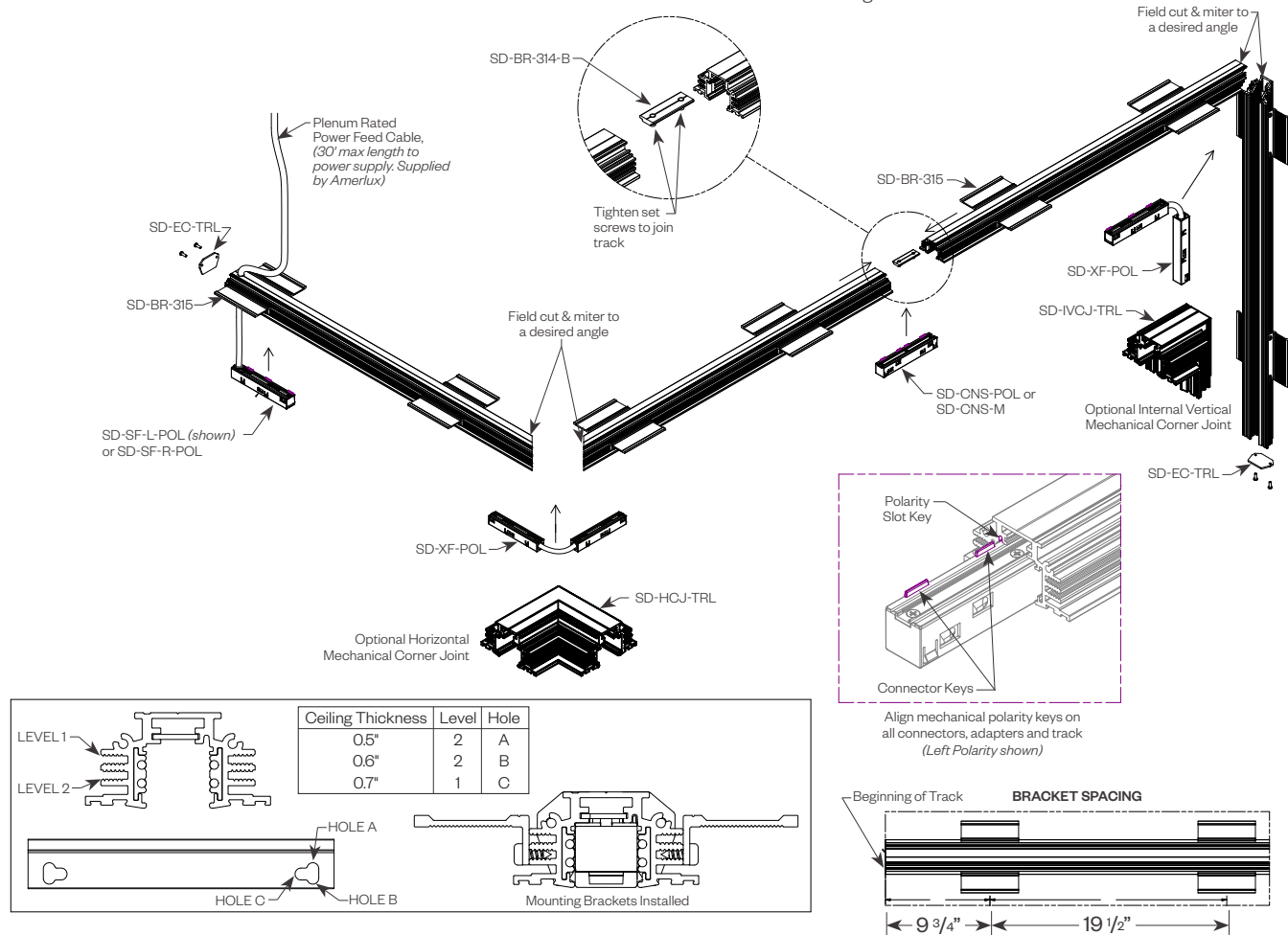


PROJECT:

TYPE:

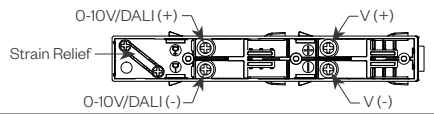
## SD-TRD Track Breakdown

**NOTES:** 48V Transformer is remote mounted no further than 30'. Wires from transformer to J-Box are to be 18 ga.

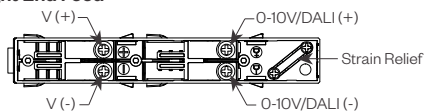


## End Feed Wiring

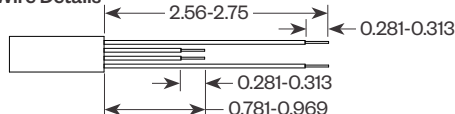
### Left End Feed



### Right End Feed



### Wire Details



## Remote Wiring

Note: Refer to Wired Control wiring schematics, pg 14.



## Voltage Drop

Maximum allowed track length for a 30' plenum rated cable supplied by Amerlux according to the selected wattages.

| Power Supply (W) | Max. Track Length (ft) |
|------------------|------------------------|
| 100W             | 750                    |
| 260W             | 200                    |
| 320W             | 150                    |

Voltage drop approximately 12.5%, 6V

**Note:** Ensure that the transformer does not exceed 80% of the total wattage in order to maintain its optimal performance.