

WARNING!

ALWAYS TURN OFF MAIN POWER BEFORE INSTALLING & SERVICING!
 Ensure to read all Safety and Installation Instructions thoroughly!

IMPORTANT SAFETY INSTRUCTIONS

1. Read all instructions.
2. Install in accordance with national and local electrical code regulations.
3. This product is intended to be installed and serviced by a qualified, licensed electrician.
4. Only install with a Class 2 24V DC Constant Voltage LED driver. This product has not been evaluated for use when connected to an LED driver that does not comply with Class 2 voltage and energy limited supplies.
5. Only use copper wiring. Use wires rated for at least 176F (80C) and certified for use with external connection of electrical equipment.
6. Inadequate wire installation could overheat wires, and cause a fire. Install applicable wire between driver, fixture, and any controls in between. When choosing wire, factor in voltage drop, amperage rating, and type (in-wall rated, etc.)
7. Do not conceal or extend exposed conductors through a building wall. Power feeds and additional extension cables/connectors are not rated for in-wall installation. Wire leads are field-cuttable.
8. Each Maximum Run requires a dedicated power feed from the driver.
9. For cabinet, undercabinet, and surface mount use. Also suitable for installation in a clothes closet.
10. Do not install outdoors or in wet locations. For indoor and dry use only.
11. To reduce the risk of fire and overheating, make sure all connections are tight.
12. Do not install any luminaire closer than 6 inches (15.25cm) from any curtain, or similar combustible materials.
13. Turn off electrical power before modifying the lighting system in any way.

SAVE THESE INSTRUCTIONS

QUICK SPECS

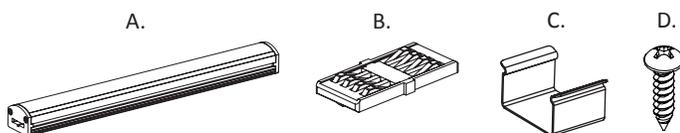
SKU	Length	Power	Input	Environment
DI-24V-TRxx-6-zz	6 in.	2.4W	24V DC	Dry / Indoor
DI-24V-TRxx-12-zz	12 in.	4.8W		
DI-24V-TRxx-24-zz	24 in.	9.6W		
DI-24V-TRxx-36-zz	36 in.	14.4W		
DI-24V-TRxx-48-zz	48 in.	19.2W		

xx - indicates CCT, zz - indicates color finish
 See spec sheet for available CCT's and color finishes.

SUPPLIED ACCESSORIES

TRU-LINK LED Light Bar: DI-24V-TR**

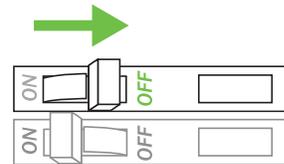
- | | |
|-----------------------------------------------|-------------------------------|
| A. TRU-LINK LED Light Bar (1) | C. TRU-LINK Mounting Clip (2) |
| B. TRU-LINK Linkable End-to-End Connector (1) | D. Mounting Screws (2) |



INSTALLATION

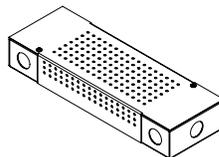
1 TURN POWER OFF AT CIRCUIT BREAKER

SHOCK HAZARD! May result in serious injury or death.
 Turn power OFF at circuit breaker prior to installation.

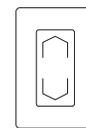


2 DETERMINE LOCATION TO INSTALL COMPONENTS

Refer to **SYSTEM DIAGRAMS** on page 4. Ensure to calculate LED load properly for loading LED driver. See **QUICK SPECS** to calculate loads.



1) Class 2 Driver



2) Control



3) Fixture

WIRE GAUGE & VOLTAGE DROP

Ensure applicable wire is installed between driver, fixture, and any controls in between. When choosing wire, factor in voltage drop, amperage rating, and type (in-wall rated, wet location rated, etc.)

3 CONFIGURE SYSTEM AND TEST CONNECTION.

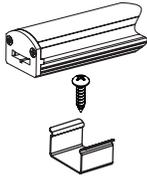


Prior to mounting, attach system to Class 2 LED Driver, turn on power and test connection to ensure system is operating properly. Turn off power again before mounting.

INSTALLATION CONT.

4 MOUNT LIGHT BARS TO SURFACE.

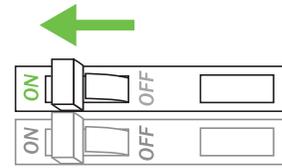
2x mounting clips per LED bar. 1x clip for Inline Touch Dimmer (DI-TR-TD-*) and Occupancy Sensor Switch (DI-TR-MS-*).



5 ATTACH DRIVER AND LIGHTING CONTROL.

ONLY USE COPPER WIRING. See **SYSTEM DIAGRAMS.** Verify a compatible driver and control are installed. REVIEW FULL SYSTEM and ensure all polarities are correct and connections are secure.

6 TURN POWER ON AT CIRCUIT BREAKER.

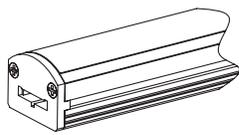


SYSTEM WORKING IMPROPERLY?

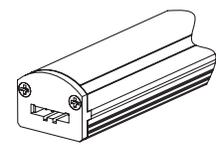
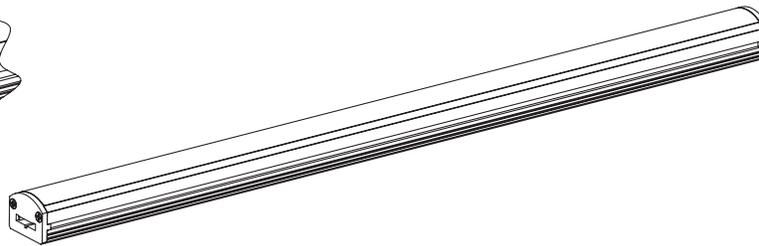
Turn power OFF at circuit breaker and verify all connections. Review SYSTEM DIAGRAMS and TROUBLESHOOTING or call Diode LED Technical Support at 877.817.6028.

TRU-LINK ACCESSORIES

TRU-LINK LED LIGHT BAR - DI-24V-TRxx-yy-zz

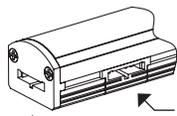


Power Input
(Single Groove)



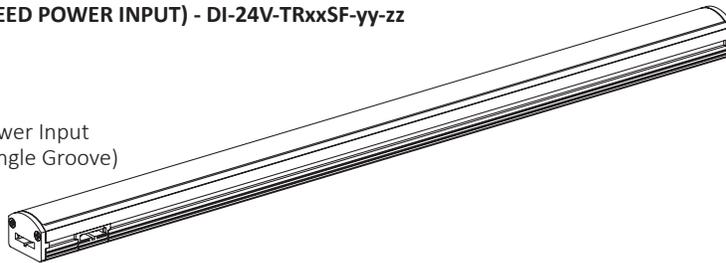
Output Connection
(Double Groove)

TRU-LINK LED LIGHT BAR (SIDE FEED POWER INPUT) - DI-24V-TRxxSF-yy-zz



Input Connection - No Power
(Single Groove)

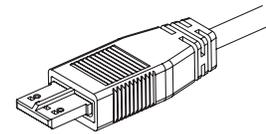
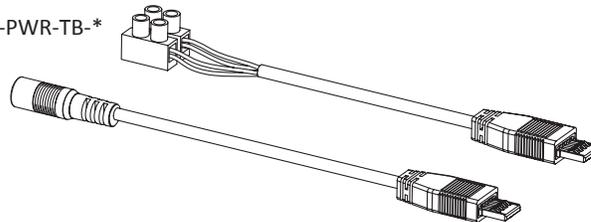
Power Input
(Single Groove)



TRU-LINK POWER CONNECTORS

DI-TR-PWR-TB-*

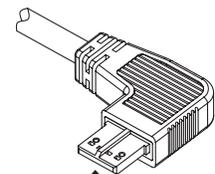
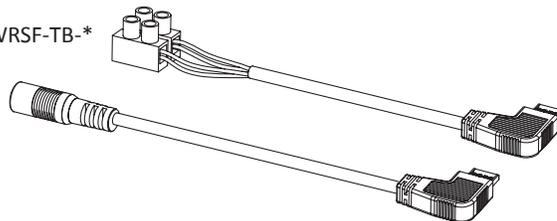
DI-TR-PWR-DC-*



Power Input Connection
(Single Groove)

DI-TR-PWRSF-TB-*

DI-TR-PWRSF-DC-*

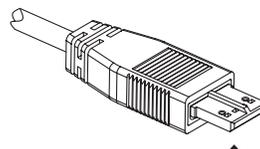
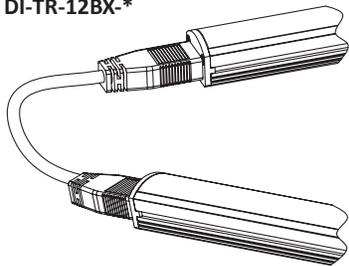


Power Input Connection
(Single Groove)

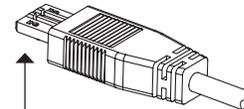
xx - indicates CCT, yy - indicates length, zz - indicates color finish, * - indicates accessory color finish

TRU-LINK ACCESSORIES CONT.

TRU-LINK BENDING EXTENSION - DI-TR-12BX-*

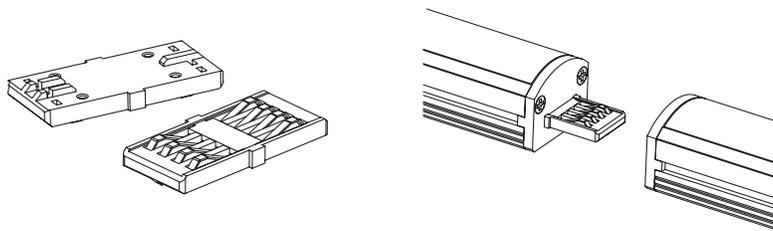


Power Input Connection
(Single Groove)

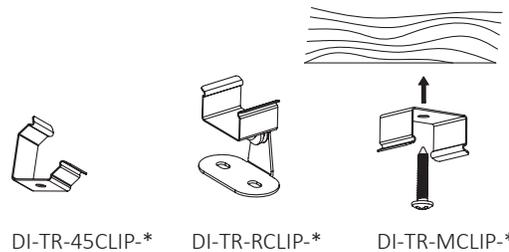


Power Output Connection
(Double Groove)

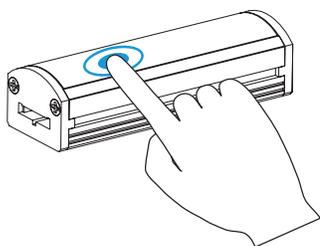
TRU-LINK LINKABLE END-TO-END CONNECTOR - DI-TR-ETE-*



TRU-LINK MOUNTING CLIPS



TRU-LINK TOUCH DIMMER - DI-TR-TD-*



TOUCH DIMMER SETTINGS

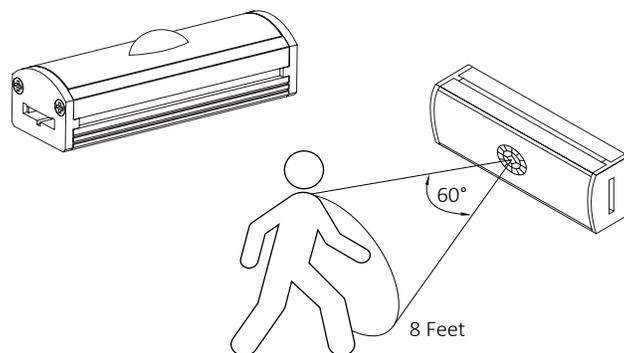
Tap 1	25% Brightness
Tap 2	50% Brightness
Tap 3	75% Brightness
Tap 4	100% Brightness
Tap 5	OFF**

** Blue indicator light will illuminate when Touch Dimmer is switched OFF.

TOUCH DIMMER COMPATIBILITY NOTE

The TRU-LINK Touch Dimmer is a low voltage inline PWM dimmer and is only compatible with Diode LED Constant Voltage Drivers and Plug-in Adapters that are compatible with PWM controls. Touch Dimmer is not compatible with SWITCHEX®, OMNIDRIVE® Series Electronic Dimmable Drivers, Magnetic Dimmable Drivers, or 0-10V Dimmable Drivers Drivers.

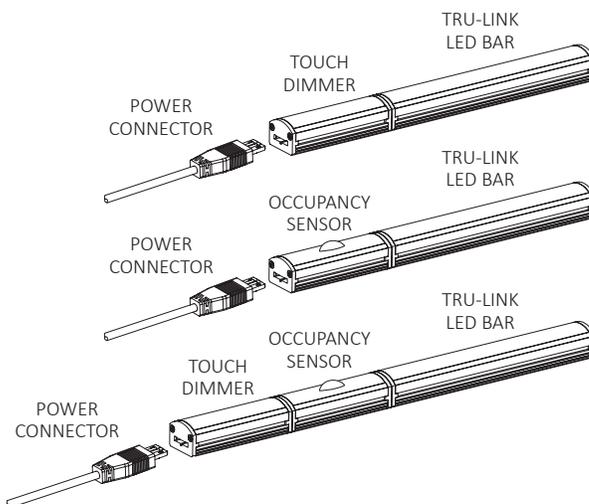
TRU-LINK OCCUPANCY SENSOR SWITCH - DI-TR-MS-*



When motion is detected, sensor switch will illuminate attached LED load. Continuous motion will keep lights activated. Lights will shut off 10 seconds after motion is not detected.

TRU-LINK TOUCH DIMMER & OCCUPANCY SENSOR SWITCH CONNECTION DIAGRAMS

When installing both Touch Dimmer & Occupancy Sensor Switch, ensure to install in the following order: Power Connector, Touch Dimmer, Occupancy Sensor, TRU-LINK LED Light Bar.

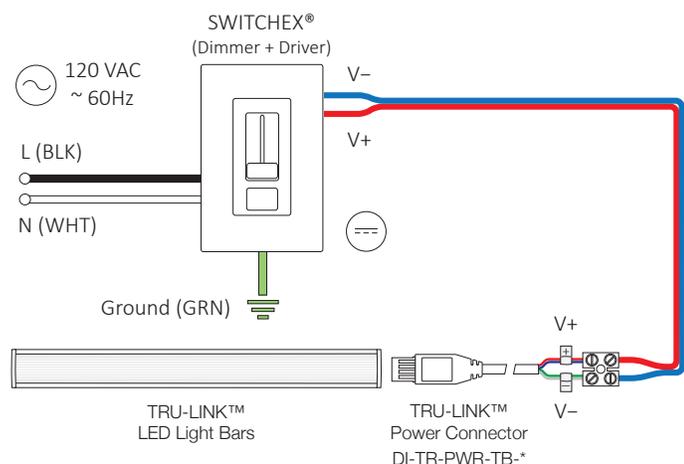


* - indicates accessory color finish

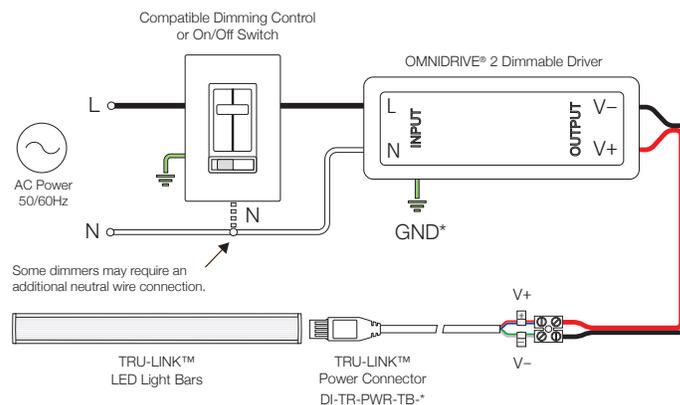
SYSTEM DIAGRAMS

The following diagrams are examples of the most popular TRU-LINK® system configurations and are provided below as sample system designs. Install in accordance with NEC and local regulations.

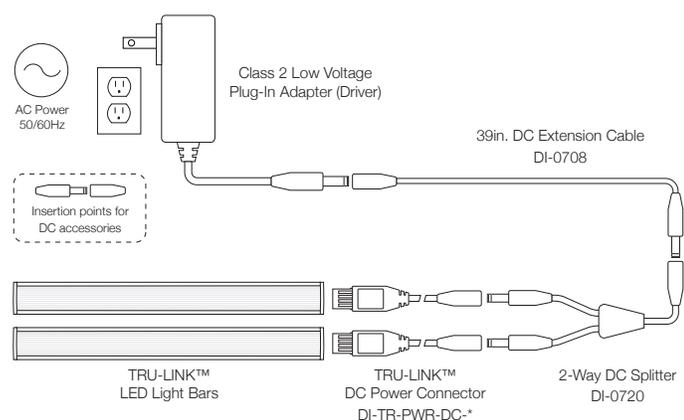
SWITCHEX® SYSTEM DIAGRAM



OMNIDRIVE® 2 SYSTEM DIAGRAM

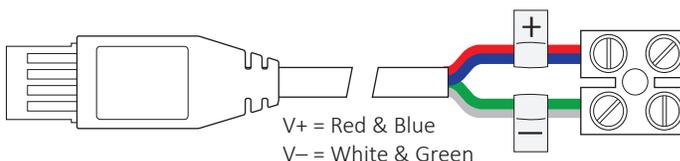


PLUG-IN ADAPTER SYSTEM DIAGRAM



TRU-LINK® HARD-WIRE POWER CONNECTOR WIRING

Includes models: DI-TR-PWR-TB-*



TROUBLESHOOTING

Symptom	Common Cause
Fixture does not illuminate	<ul style="list-style-type: none"> Circuit breaker is OFF or tripped. Incorrect wiring. Polarity of Low Voltage V+ and V- are reversed. Check connection at every connection point to ensure polarity is not reversed. Incorrect voltage pairing of LED driver and fixture. 12V driver models will not power a fixture with a higher voltage rating.
Fixture flickers randomly, may shut off	<ul style="list-style-type: none"> Connection is not secure. Check all hard-wired connections. Ensure TRU-LINK connectors are seated fully into bars.
Shift in brightness and/or color	<ul style="list-style-type: none"> Review maximum series run limit. Exceeding will cause voltage drop, decreasing brightness and/or color shift.
Fixture turns on/off repeatedly	<ul style="list-style-type: none"> Driver is overloaded or overheated. An overloaded/overheated driver will trip the internal auto-reset (of driver) repeatedly, turning the system on/off.

INSTALLING TRU-LINK TOUCH DIMMER OR OCCUPANCY SENSOR SWITCH?

See **TRU-LINK TOUCH DIMMER & OCCUPANCY SENSOR SWITCH CONNECTION DIAGRAMS** on page 3.

The TRU-LINK Touch Dimmer is a low voltage inline PWM dimmer and is only compatible with Diode LED Constant Voltage Drivers and Plug-in Adapters that are compatible with PWM controls. Touch Dimmer is not compatible with SWITCHEX®, OMNIDRIVE® Series Electronic Dimmable Drivers, Magnetic Dimmable Drivers, or 0-10V Dimmable Drivers.

ADDITIONAL RESOURCES

Visit the on-line product page at www.DiodeLED.com for full product specifications, installation guides, and warranty information.

TRU LINK LED LIGHT BAR SPECIFICATION SHEET

For full product specifications and warranty information.

LED DRIVER SPECIFICATION SHEETS / INSTALL GUIDES

For full product specifications and warranty information.



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