

WARNING AND CAUTIONS:

- **TO AVOID FIRE, SHOCK, OR DEATH; TURN OFF POWER AT CIRCUIT BREAKER OR FUSE AND TEST THAT POWER IS OFF BEFORE INSTALLING!**
- The TL7-DALI-DC should only be installed in a fixture with a NEMA/ANSI C136.41 receptacle.
- Failure to follow these instructions and warnings could potentially void warranty.

WARNING AND CAUTIONS:

- If you are unsure about any part of these instructions, consult an electrician; all work should be performed by qualified personnel.
- This product must be installed in accordance with national, state, and local electrical codes and requirements

INSTALLATION GUIDE

SPECIFICATIONS

- Radio Frequency: 2.4 GHz (IEEE 802.15.4)
- RF Transmission Output Power: +20dBm
- Operating Temperature: -40 to +70 C
- Operating Humidity: 0 to 90%, non-condensing
- Max D4i Drivers: Limited to 4 D4i LED drivers
- Dimensions: 3.3" D x 2.0" H
(84mm D x 51mm H)
- Sensor Input: 24VDC

WIRING DETAILS OF C136.41 SOCKET

If a motion sensor or the C136.41 socket needs to be wired up prior to installing the TL7-DALI-DC, please refer to the wiring details.

NOTE: LINE (Black) and LOAD (Red) are internally shorted together.

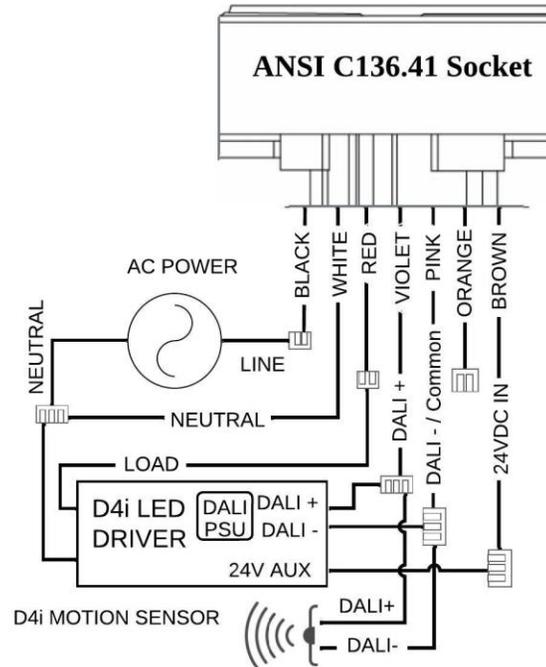
(See Figure 1)

DESIGN CONSIDERATIONS

- Do not ground the DALI-/COM wire to chassis ground; this is a return signal and is critical for proper dimming.
- Route DALI wires away from AC lines if possible.
- Maximum of 4 DALI-2/D4i LED Drivers per controller, consult Synapse Support if a greater ratio is needed.

WARNING: The maximum number of D4i LED Drivers with an active DALI power supply on the bus is 4. Up to 6 D4i LED drivers may be on the bus, but only 4 may have active power supplies. SimplySnap will not support more than 6 D4i LED drivers on the Synapse lighting controller. The DALI bus is limited to 250mA. Having more than 4 DALI power supplies on the bus may void the D4i LED driver warranty.

D4i MOTION SENSOR



ANALOG MOTION SENSOR

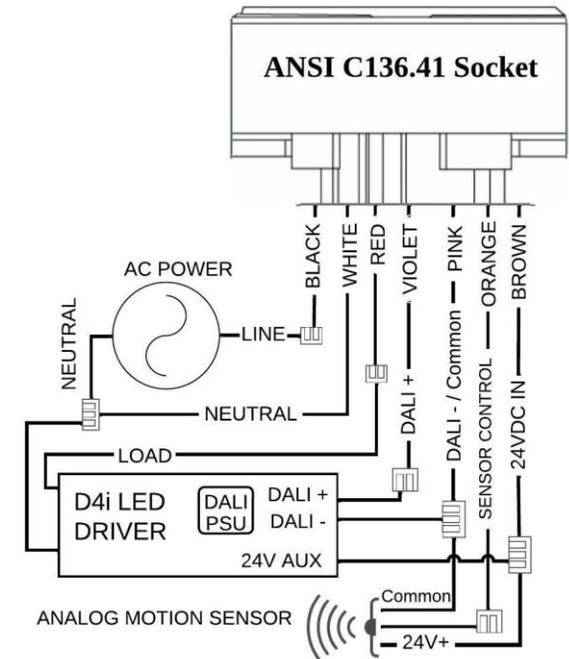


Figure 1 – C136-41 Socket Wiring Details

INSTALLATION INSTRUCTIONS

1. If applicable, remove the lighting control device currently installed in the fixture receptacle.
2. Align the TL7-DALI-DC such that the large contact pin is positioned above the large receptacle contact.
3. Insert the TL7-DALI-DC contacts completely into the receptacle contacts by pressing down.
4. While pressing down, twist the TL7-DALI-DC housing clockwise until it locks into place. **(See Figure 2)**
5. If the device is properly seated, on power up (and until commissioned in a SimplySnap system), the TL7-DALI-DC will immediately go to 100% dimming, then fade to 0% over 60 seconds, then back to 100%. If it does not dim, the device is not twisted into the proper position.

Note: To function properly, make sure the controller is inserted completely into the socket and twisted into the locked position.

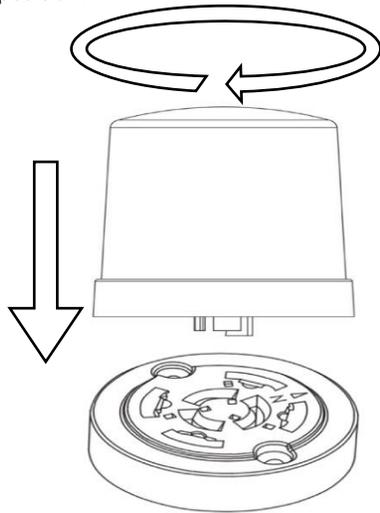


Figure 2 – Installation Diagram

For more information on SimplySnap and the TL7-DALI-DC, refer to the website at <http://help.synapsewireless.com/>.

STATUS LEDS

LED	COLOR	STATUS
LED 1	BLUE	Network Found, Controller Not Configured (Not yet added to SimplySnap)
LED 1	GREEN	Network Found, Controller Configured (Normal Operation)
LED 1	RED	No Network Found (Communication Lost)
LED 2	BLUE	Power On

REGULATORY INFORMATION AND CERTIFICATIONS

RF Exposure Statement: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Industry Canada (IC) certifications: This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la class B prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

FCC certifications and regulatory information (USA only)

FCC Part 15 Class B: This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) These devices may not cause harmful interference, and (2) These devices must accept any interference received, including interference that may cause harmful operation.

RADIO FREQUENCY INTERFERENCE (RFI) (FCC 15.105): This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a

particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: (1) Re-orient or relocate the receiving antenna; (2) Increase the separation between the equipment and the receiver; (3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected; (4) Consult the dealer or an experienced radio/TV technician for help.

Declaration of Conformity (FCC 96-208 & 95-19): Synapse Wireless, Inc. declares that the product name "TL7-DALI-DC" to which this declaration relates, meet the requirements specified by the Federal Communications Commission as detailed in the following specifications:

- Part 15, Subpart B, for Class B equipment
- FCC 96-208 as it applies to Class B personal computers and peripherals
- This product has been tested at an External Test Laboratory certified per FCC rules and has been found to meet the FCC, Part 15, Emission Limits. Documentation is on file and available from Synapse Wireless, Inc.

If the FCC ID for the module inside this product enclosure is not visible when installed inside another device, then the outside of the device into which this product is installed must also display a label referring to the enclosed module FCC ID. Modifications (FCC 15.21): Changes or modifications to this equipment not expressly approved by Synapse Wireless, Inc., may void the user's authority to operate this equipment.

CERTIFICATIONS

Model : TL7-DALI-DC
Contains FCC ID: U90-SM220
Contains IC : 7084A-SM220
UL File No : E493550

Contact Synapse for Support- (877) 982-7888

Patented – virtual marking at <https://www.synapsewireless.com/about/patents>