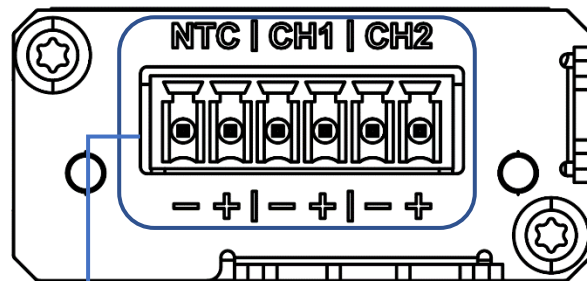
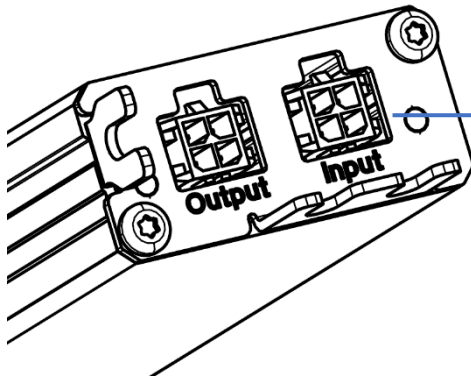
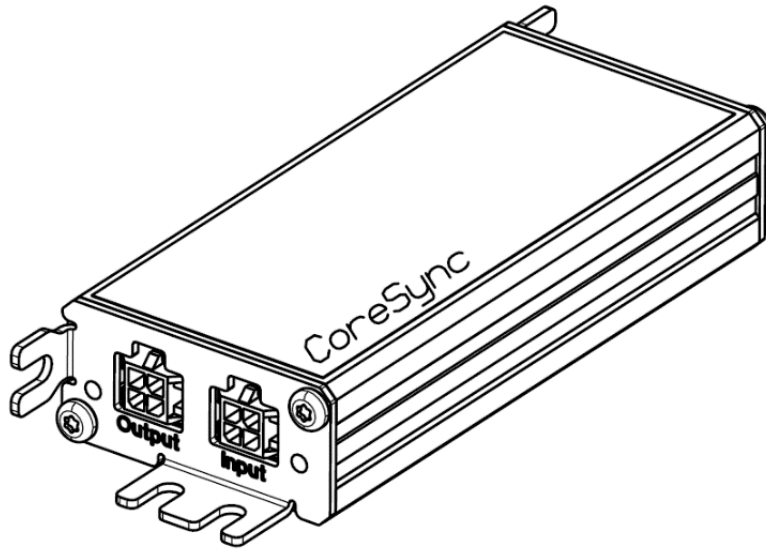


CoreSync Compact Programmable Driver



INSTALLATION INSTRUCTIONS



4-pin Micro Fit 3.0 Connector
for CoreSync Bus IO
42-57 VDC + RS485 Data Line

NTC + Two Channel LED Output

Order No.	Description
1809967101	Compact Programmable Driver, Single channel, Low current
1809967102	Compact Programmable Driver, Single channel, Mid current
1809968101	Compact Programmable Driver, Dual channel, Low current
1809968102	Compact Programmable Driver, Dual channel, Mid current
395000006	3.50mm Pitch Eurostyle Horizontal Plug, 6 Circuits (Included)

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IMPORTANT SAFETY INSTRUCTIONS. SAVE THESE INSTRUCTIONS

1. CAUTION AND WARNING

- **CAUTION** – Observe precautions for handling electrostatic sensitive devices.
- **WARRANTY** – Voided if device has been modified from its original configuration or in the event of hot plug/hot swap.
- **WARNING** – Risk of Electric Shock. Do not handle energized module with wet hands or when standing on wet surfaces.
- Use only with Class 2 Power Unit – 60VDC Max.
- Do not use outdoors.
- Suitable for damp locations
- Conforms to UL960730-1, CAN/CSA-E60730-1. For CSA, device is intended to be installed in a restricted access area.
- Suitable for Use in Other Environmental Air Space (Plenums) in accordance with Section 300.22, (C) of the National Electrical Code
- This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- Maximum temperature is 30°C ambient.
- Input: PoE voltage range of 42-57V.

CONSTANT CURRENT DRIVER MUST BE INSTALLED BY A CORESYNC CERTIFIED TECHNICIAN OR QUALIFIED ELECTRICIAN (CHECK WITH LOCAL AND NATIONAL CODES FOR PROPER INSTALLATION)

INSTALLATION INSTRUCTIONS

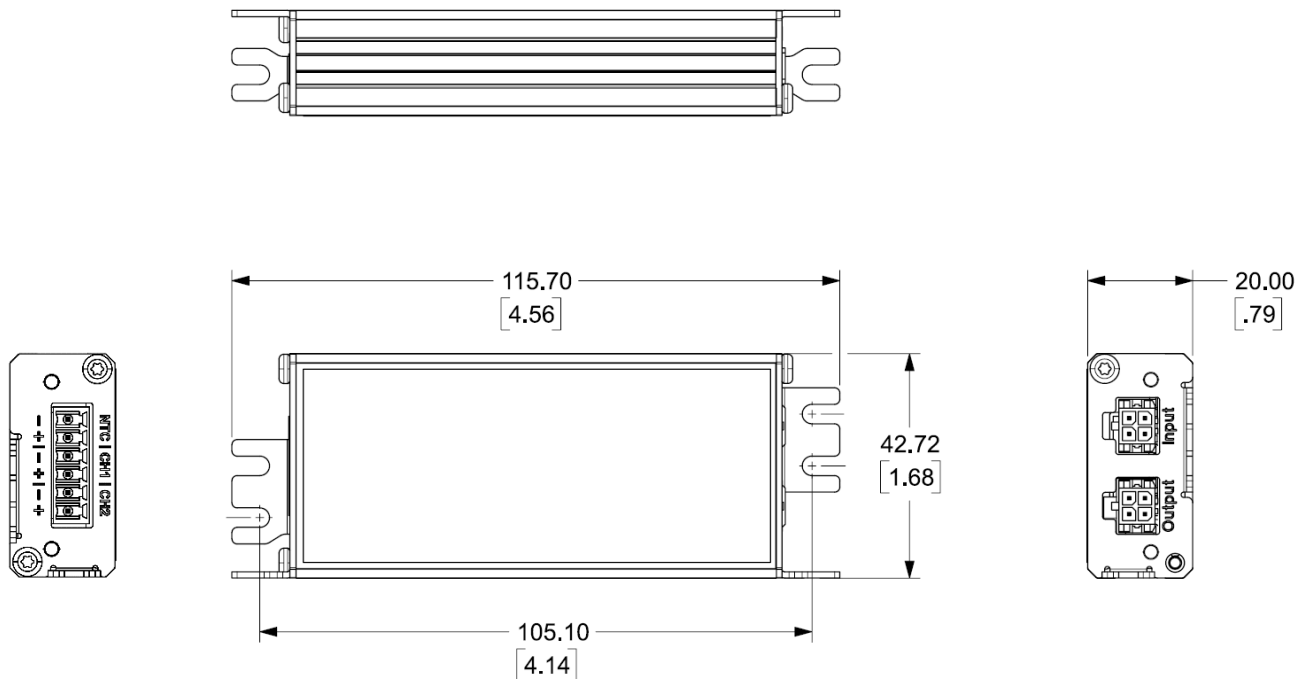
2. Product Description:

The CoreSync Compact Driver is a low voltage, DC/DC LED driver for driving Constant Current LED engines in a wide variety of light fixtures. Controlled and powered by a Molex CoreSync Gateway. The CoreSync Compact Driver can be embedded in a fixture or placed remotely. The Driver is connected to the CoreSync Gateway using rugged and reliable CoreSync Harness.

3. Procedures

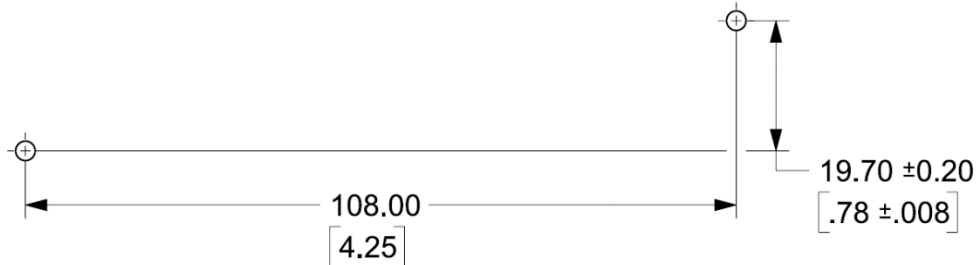
Step 1. Ensure that the Gateway being utilized to power and control this driver is **deenergized to prevent hot plugging.**

Step 2. Refer to the dimensions and mounting patterns below to mount the constant voltage driver.
Dimensions for CoreSync constant voltage driver:

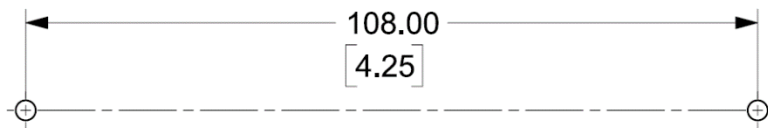


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Mounting pattern for CoreSync Programmable Driver:



MOUNTING HOLES LOCATION, OFFSET MOUNTING FOR A #6-32 SELF TAPPING SCREW



MOUNTING HOLES LOCATION, VERTICAL/CENTER MOUNTING FOR A #6-32 SELF TAPPING SCREW

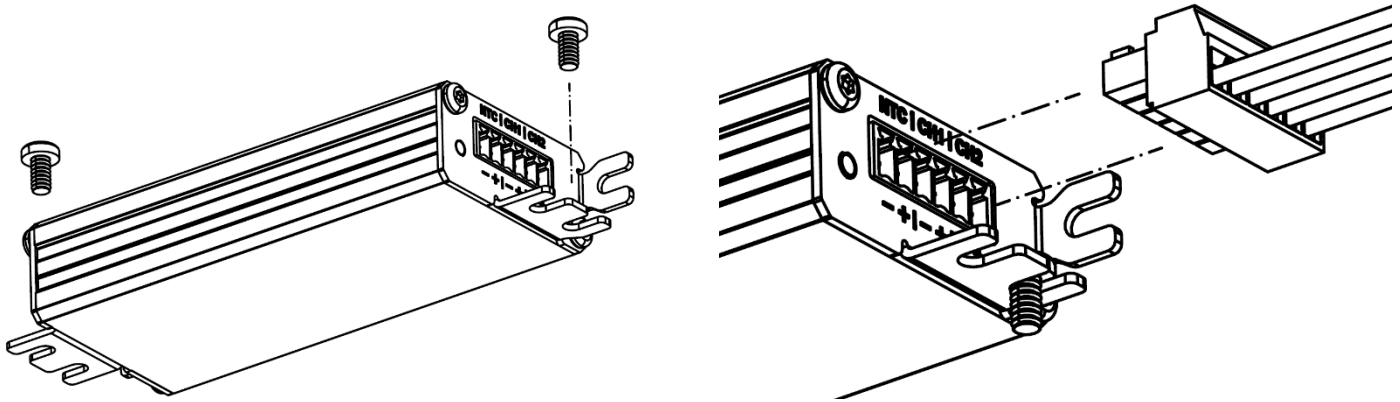
Step 3. Attach the LED fixture wires to the Molex 6 position screw plug connector. Tighten the screws to secure the wire inside the terminal block. Terminal block wiring is dependent on the fixture type and number of fixtures.



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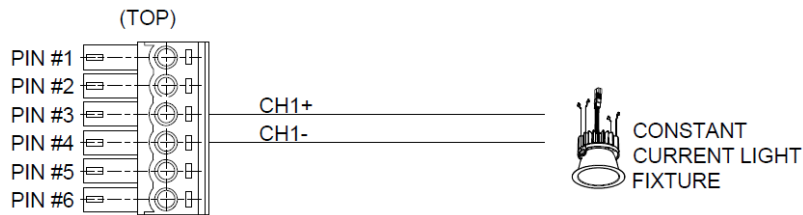
INSTALLATION INSTRUCTIONS

Step 4. Use #6 self-tapping screws to mount the driver as shown below (Screws not provided). It is recommended that the driver is not connected to earth ground.

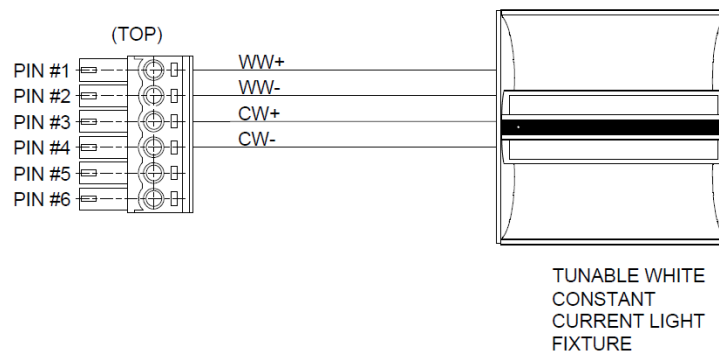


Step 5. The Constant Voltage Driver can operate either Mono-lights, Tunable-lights, or RGBW-lights. Differing fixture types can also be connected to one device following the wiring below.

Mono-Light. A single 40W fixture can be supported since an individual channel can support a maximum of 1.8A.



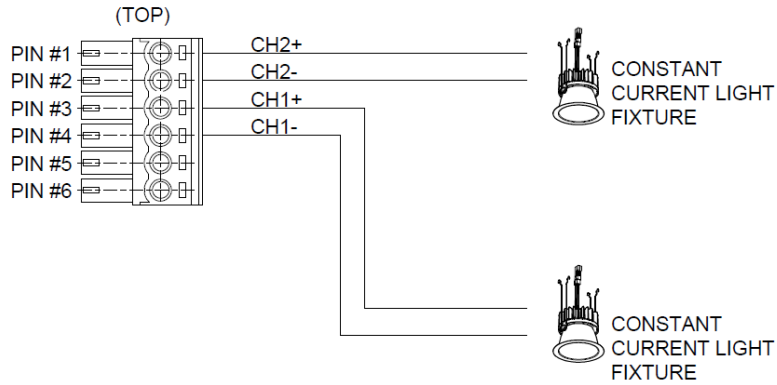
Tunable-Light. A single 40W fixture can be supported since an individual channel can support a maximum of 1.8A.



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INSTALLATION INSTRUCTIONS

Dual Mono Light. Both Mono lights and tunable lights can be controlled by the same driver as long as the full set of connections are available for the channel used.



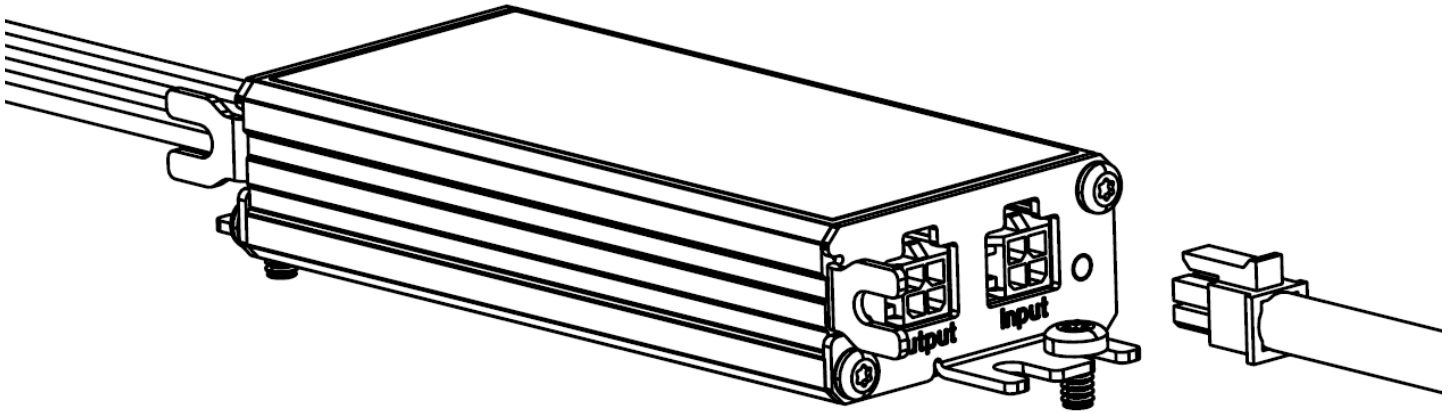
TERMINAL BLOCK PINOUT

LED TYPE	PIN #1	PIN #2	PIN #3	PIN #4	PIN #5	PIN #6
TUNABLE WHITE	CH2+	CH2-	CH1+	CH1-	NTC+	NTC-
(1) MONO LIGHT	-	-	CH1+	CH1-	NTC+	NTC-
(2) MONO LIGHT	CH2+	CH2-	CH1+	CH1-	NTC+	NTC-

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INSTALLATION INSTRUCTIONS

Step 6. ENSURE THE GATEWAY IS DEENERGIZED TO PREVENT HOT PLUGGING. After connection to the LED fixture, snap in the CoreSync cable harness 2x2 PIN end as shown below to the INPUT side.



Step 7. The other end of the wire harness goes into the Gateway or the previous daisy-chain device's output port. The Gateway is supplied separately.

4. CALCULATING MAX CONNECTED DEVICES:

The IEEE 802.3bt standard guarantees at least 71.3W at the input of the Gateway. Using this number and the max power consumption of 3.2W for this gateway, provides 68.1W of connected devices. Please use individual data sheets of the connected devices in tandem with the CoreSync Harness Length Calculator to determine the maximum power consumption. For further details please refer to the CoreSync Academy Module "Device Layout & Design Overview".

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Molex Connected Enterprise Solutions 



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