CoreSync Compact Driver

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Channel 1

Channel 2

External NTC

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

Order No. Single	Order No. Dual	Description
1809965107	1809966107	CoreSync Compact Driver, 300mA
1809965101	1809966101	CoreSync Compact Driver, 350mA
1809965102	1809966102	CoreSync Compact Driver, 500mA
1809965103	1809966103	CoreSync Compact Driver, 700mA
1809965106	1809966106	CoreSync Compact Driver, 880mA
1809965104	1809966104	CoreSync Compact Driver, 1050mA
1809965108	1809966108	CoreSync Compact Driver, 1200mA
1809965109	1809966109	CoreSync Compact Driver, 1400mA

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 or damp surfaces.

- **DO NOT** DISASSEMBLE THE CONSTANT CURRENT DRIVER

- **DO NOT** connect the CoreSync Harness when Gateway is energized

- **DO NOT** handle energized unit with wet hands or when standing on wet or damp surfaces.

- 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.

- Use only with Class 2 Power Unit – 60VDC Max.

- Input: PoE voltage range of 42-57V.

- Maximum temperature is 30°C ambient.

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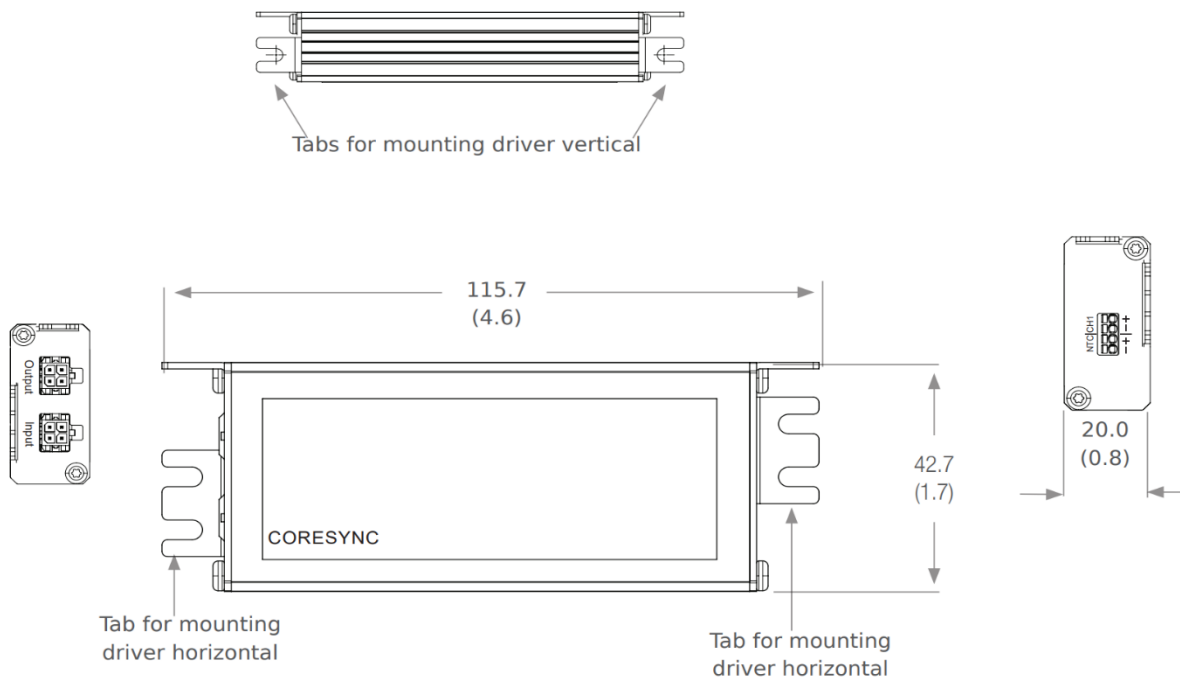
2. Procedures

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 Current Driver.
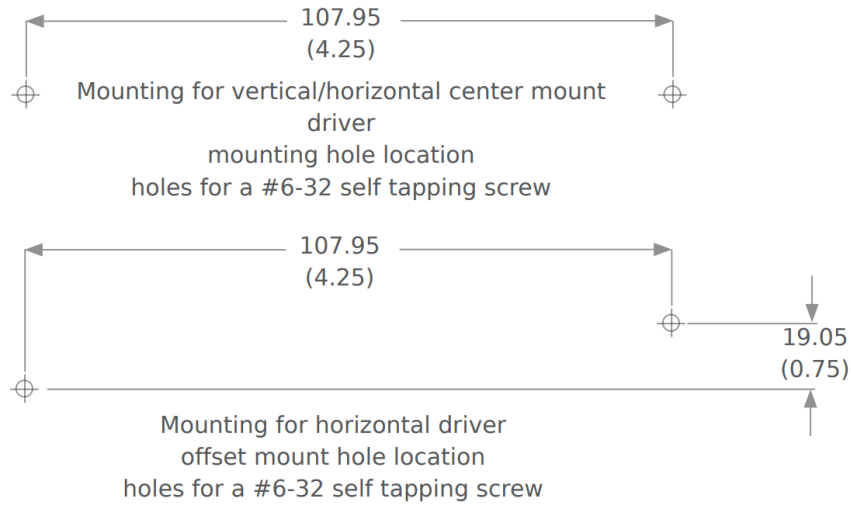
Dimensions for CoreSync Constant Current Driver:

Tabs for mounting driver vertical

115.7
(4.6)

42.7
(1.7)

20.0
(0.8)

Output
Input

CORESYNC

Tab for mounting
driver horizontal

Tab for mounting
driver horizontal

Mounting pattern for CoreSync Programmable Driver:

CoreSync Compact Driver

107.95
(4.25)

Mounting for vertical/horizontal center mount
driver
mounting hole location
holes for a #6-32 self tapping screw

107.95
(4.25)

19.05
(0.75)

Mounting for horizontal driver
offset mount hole location
holes for a #6-32 self tapping screw

Step 3. Attach the LED fixture wires to the CoreSync Driver.

Single Channel Driver Wiring:

- CH1 is loaded with a single LED load. Please see the "+" and "-" as printed on endcap.
- Poke-ins require a minimum strip length of 6mm (20-24 AWG, 75°C minimum) with a maximum length of 10 feet.
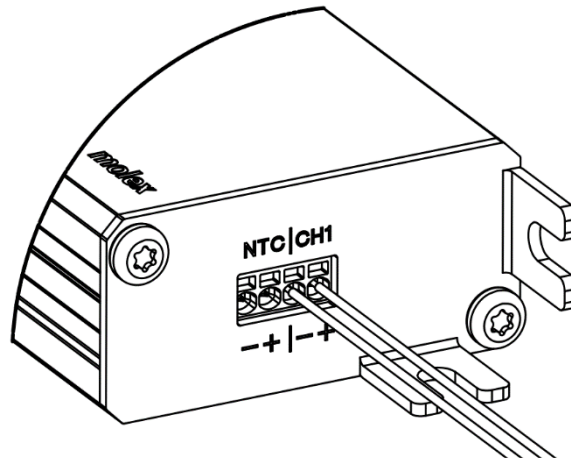
Dual Channel Driver Wiring:

- CH1 and CH2 are loaded with two independent LED loads. Please see the "+" and "-" as printed on endcap.
- Poke-ins require a minimum strip length of 6mm (20-24 AWG, 75°C minimum) with a maximum length of 10 feet.
- Available for the DUAL driver version only.
- DO NOT CROSS JUMP between channels

CoreSync Compact Driver
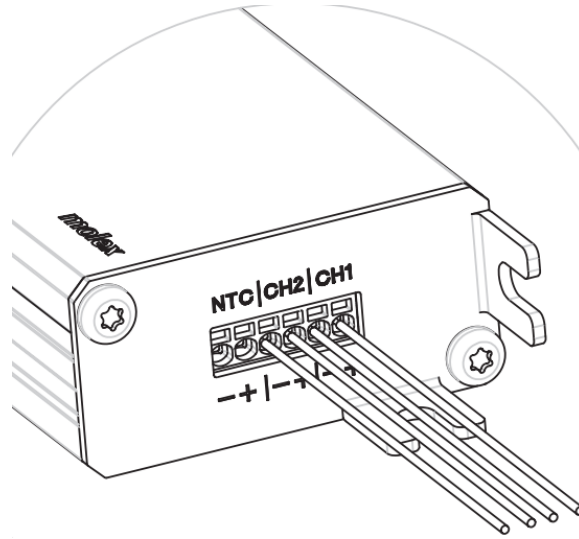
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NTC Wiring:

- NTC provides thermal data for fold-back capability.
- Available for the DUAL driver version only.
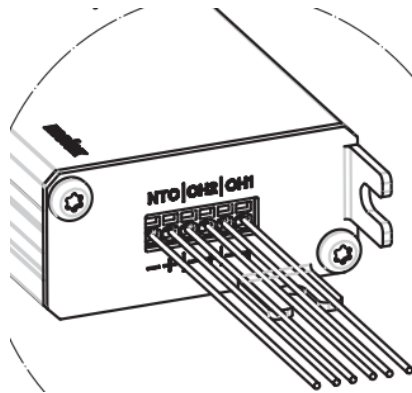
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Step 4. After connection to the LED fixture, snap in the CoreSync cable harness 2x2 PIN end as shown below to the INPUT side.
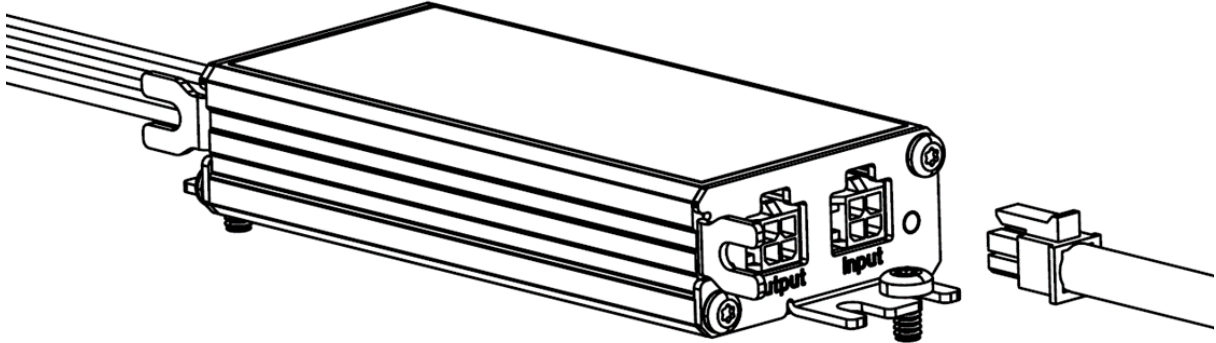
Step 5. The other end of the wire harness goes into the Gateway or the previous daisy-chain device's output port. The Gateway is supplied separately.

Step 6 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.
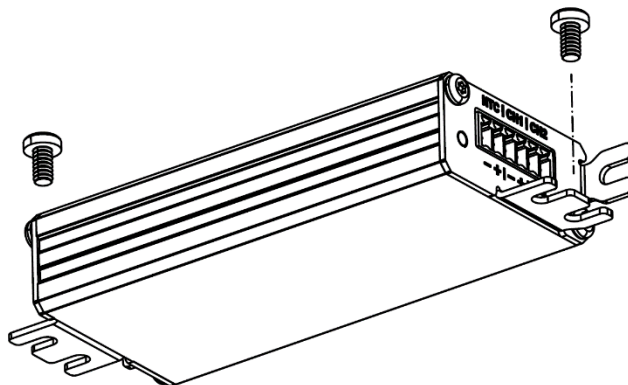
3. CALCULATING MAX CONNECTED DEVICES:

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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- LEGAL DISCLAIMER -

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