



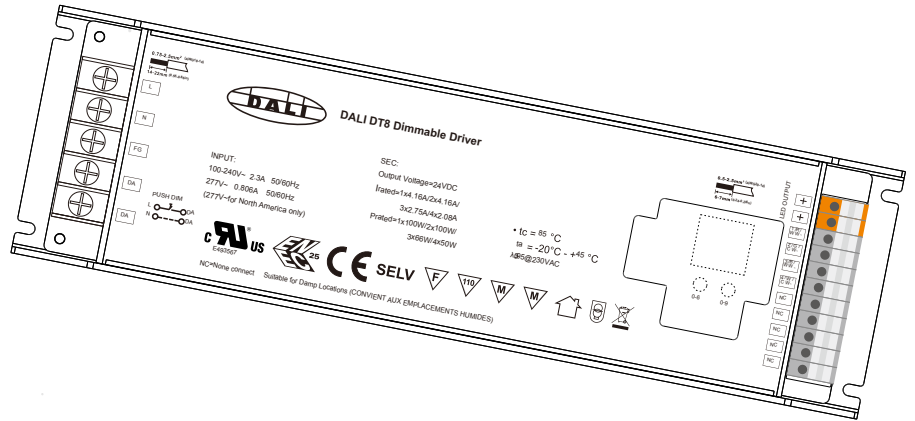
EOS-200W-DALI

6-in-1 Constant Voltage DALI LED Driver

Driver Attributes:

The EOS-200W-DALI LED Driver offers control for either 12V or 24V LED applications. This 200 Watt constant voltage LED driver is DALI compatible and works seamlessly together with LED modules, controls and intelligent luminaire elements.

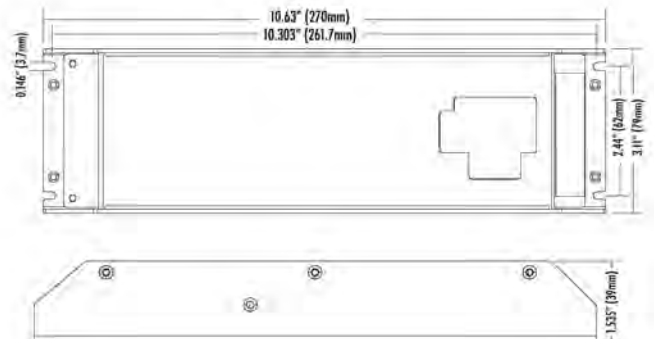
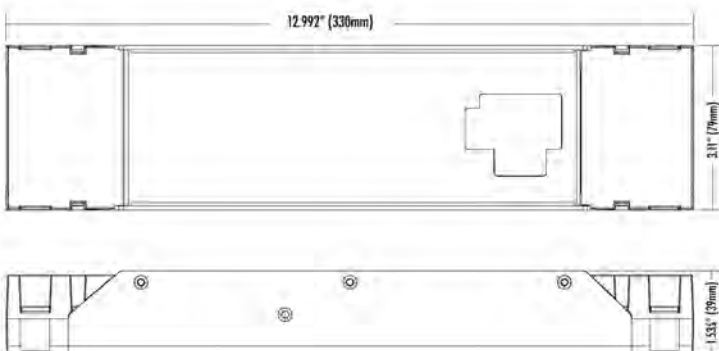
- 6 in 1 DALI DT8 LED driver, max. output power 200W total
- 6 universal device types in 1: Tc, T.c, X.6, XY, r9, t6 can be set by the buttons
- In compliance with IEC 62386-101:2014, IEC 62386-102:2014, IEC 62386-207 Ed2, IEC 62386-209:2011
- Built-in DALI-2 interface, DALI DT8 device
- 4 channels DC 12/24V constant voltage output
- Class 1 power supply, full isolated plastic case
- Color control as defined in the DALI specification device type 8
- Multi-color types can be set by manual set buttons
- Supports DT8 device commands, compatible with DALI masters that support DT8 commands
- Configuration via DALI master USB interface
- Numeric digital display for setting DALI address manually
- Compatible with universal AC push switch
- Compliant with Safety Extra Low Voltage standard
- Over load, over temperature protection
- IP20 rating, suitable for indoor LED lighting applications
- 5 year warranty



SAFETY WARNINGS:

- DO NOT install with power applied to device.
- DO NOT expose the device to moisture.

Product Dimensions:





EOS-200W-DALI

6-in-1 Constant Voltage DALI LED Driver

GENERAL SPECIFICATIONS

Output	LED Channel	4	
	DC Voltage	12V DC	24V DC
	Max. Current	Max. 8.3A/ch, ch1+ch2+ch3+ch4=16.6A	Max. 4.1A/ch, ch1+ch2+ch3+ch4=8.4A
	Voltage Tolerance	± 1%	
	Rated Power	max. 200W	
Input	Voltage Range	100-277V AC	
	Frequency Range	50/60Hz	
	Power Factor (Typ.)	> 0.98 @ 230VAC	
	Total Harmonic Distortion	THD ≤ 15% (@ full load / 230VAC)	
	Efficiency (Typ.)	93% @ 230VAC full load	
	AC Current (Typ.)	2.3A @ 100VAC, 1A @ 230VAC, 0.9A@277VAC	
	Inrush Current (Typ.)	COLD START Max. 57.8A at 230VAC, 312µs duration	
	Leakage Current	< 0.5mA /230VAC	
	Standby PowerConsumption	< 1W	
Control	Dimming Interface	DALI Device Type 8 (DALI consumption<2mA)/Push	
	Dimming Range	0.1%-100%	
	Dimming Method	Pulse Width Modulation	
	Dimming Curve	Logarithmic	
Protection	Over Current	Yes, recovers automatically after fault condition is removed	
	Over Temperature	Yes, recovers automatically after fault condition is removed	
Environment	Working Temp.	-20°C ~ +45°C	
	Max. Case Temp.	85°C (Ta=45°C)	
	Working Humidity	10% ~ 95% RH non-condensing	
	Storage Temp. & Humidity	-40°C ~ +80°C, 10% ~ 95% RH	
Safety & EMC	Safety Standards	UL8750, CAN/CSA C22.2 No. 250.13-14, ENEC EN61347-1, EN61347-2-13 approved	
	Withstand Voltage	I/P-O/P: 3.75KVAC	
	Isolation Resistance	I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH	
	EMC Emission	EN55015, EN61000-3-2, EN61000-3-3	
	EMC Immunity	EN61547, EN61000-4-2,3,4,5,6,8,11, surge immunity Line-Line 1KV	
Others	MTBF	189800H, MIL-HDBK-217F @ 230VAC at full load and 25°C ambient temperature	

MCB Load Quantity

	Ipeak	Twidth	Max. quantity of LED Driver per MCB														
			B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25
12V setting	57.8A	312µs	3	4	5	7	8	6	7	9	11	14	11	14	18	22	28
24V setting	57.8A	312µs	3	4	5	7	8	6	7	9	11	14	11	14	18	22	28



EOS-200W-DALI

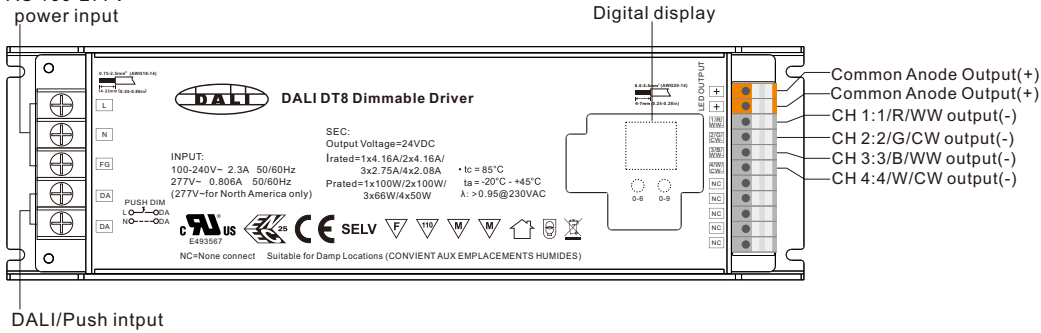
6-in-1 Constant Voltage DALI LED Driver

Important: Read All Instructions Prior to Installation

Function introduction

AC 100-277V

power input



DALI/ Push input

OPERATION:



1. Select a DALI Device Type

1.1. Press and hold down both buttons until digital display flashes, then release the button.

1.2. Keep clicking the 2nd button, you will get the 8 device types one by one as follows, 6 of them are valid modes, please ignore the other 2 modes which are invalid here:

TC, means 2 Tc color type devices integrated in one control gear, which can control 2 groups of tunable white LED separately using 2 DALI addresses under this mode.

XC (invalid mode since this mode requires 5 PWM channels), means XY & Tc color type devices integrated in one control gear, which can control RGB & CCT LED separately using 2 DALI addresses under this mode.

XC (invalid mode since this mode requires 5 PWM channels), means RGBWAF & Tc color type devices integrated in one control gear, which can control RGB & CCT LED separately using 2 DALI addresses under this mode.

XC, means XY & DT6 type devices integrated in one control gear, which can control RGB & W LED separately using 2 DALI addresses under this mode.

XY, means XY coordinate color type, which can control RGB LED using 1 DALI address under this mode.

TC, means Tc color type, which can control tunable white LED using 1 DALI address under this mode.

RGB, means RGBWAF color type, the device can control RGBW LED using 1 DALI address under this mode.

DT6, means DT6 device type, which can control single color LED using 1 DALI address under this mode.

1.3. Select a device type you would like and then press and hold down both buttons until digital display stops flashing to confirm the selection.

OPERATION (continued):



2. Setting DALI address

- 2.1. Press and hold down the first button on the left until digital display flashes, then release the button.
- 2.2. Click any of the two buttons once to select a digit, click again to change the digit until the desired DALI address appears. Click first button to set "tens" position and second button to set "units" position. The address can be set from 00~63.
- 2.3. Then press and hold down any of the 2 buttons until the numeric digital display stops flashing to confirm the setting.

Note: DALI address can be manually assigned from 00-63-FF, by factory defaults, no DALI address is assigned for the dimmer, and the display shows FF. Setting DALI address as FF will reset the dimmer to factory defaults.

3. Once an address is selected, depending on the device type selected, the control gear may occupies 2 consecutive addresses or 1 address. For example, if the control gear is addressed to 22 on the display, when the device type is multi-addresses type, the control gear occupies address 22 & 23, when the device type is single-address type, the control gear occupies address 22.

4. DALI Address Assigned by DALI Masters

DALI address can also be assigned by DALI Master controller automatically, please refer to user manuals of compatible DALI Masters for specific operations.

Note: The digital display will show **RU** When the DALI master is assigning addresses. When the device type is multi-addresses type, the control gear will be discovered as 2 separate devices.

5. Push Dimmer Mode

While connected with an AC push switch, the digital display will show "PD" which means Push Dimmer Mode, operations under Push Dimmer Mode are as follows:

While **7C** device type is selected, only the 1st group tunable white LED will be controlled by the push switch,

- Click the button to switch ON/OFF
- Press and hold down the button to increase or decrease light intensity to desired level and release it, then repeat the operation to adjust light intensity to opposite direction. The dimming range is from 1% to 100%.
- Double click the button to switch between brightness mode and color temperature mode.
- Press and hold down the button to change color temperature under color temperature mode.

While **H6** device type is selected, only the RGB LED will be controlled by the push switch,

- Click the button to switch ON/OFF
- Press and hold down the button to increase or decrease light intensity to desired level and release it, then repeat the operation to adjust light intensity to opposite direction. The dimming range is from 1% to 100%.
- Double click the button to switch between brightness mode and RGB color mode.
- Press and hold down the button to change RGB colors under RGB color mode.

While **H4** or **r9** device type is selected, RGB LED will be controlled by the push switch,

- Click the button to switch ON/OFF
- Press and hold down the button to increase or decrease light intensity to desired level and release it, then repeat the operation to adjust light intensity to opposite direction. The dimming range is from 1% to 100%.
- Double click the button to switch between brightness mode and RGB color mode.
- Press and hold down the button to change RGB colors under RGB color mode.

While **7C** device type is selected, tunable white LED will be controlled by the push switch,

- Click the button to switch ON/OFF
- Press and hold down the button to increase or decrease light intensity to desired level and release it, then repeat the operation to adjust light intensity to opposite direction. The dimming range is from 1% to 100%.
- Double click the button to switch between brightness mode and color temperature mode.
- Press and hold down the button to change color temperature under color temperature mode.

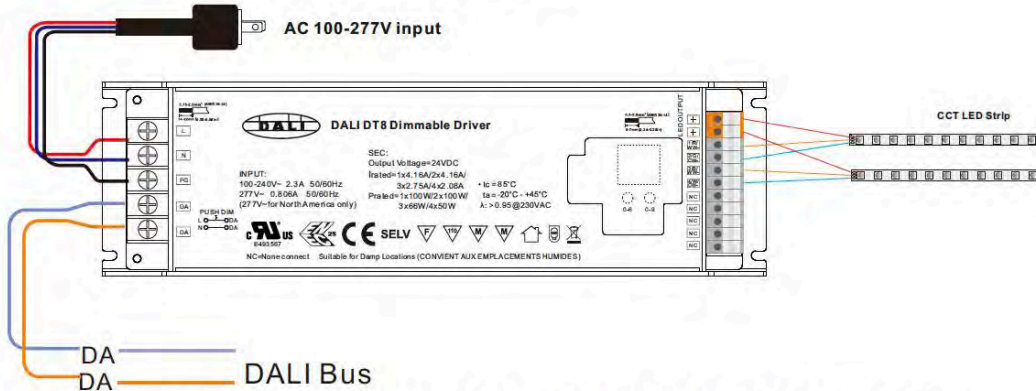
While **r6** device type is selected, single color LED will be controlled by the push switch,

- Click the button to switch ON/OFF
- Press and hold down the button to increase or decrease light intensity to desired level and release it, then repeat the operation to adjust light intensity to opposite direction. The dimming range is from 1% to 100%.

Memory function after power off or power failure enables the device to memorize the status before power off while power on again.

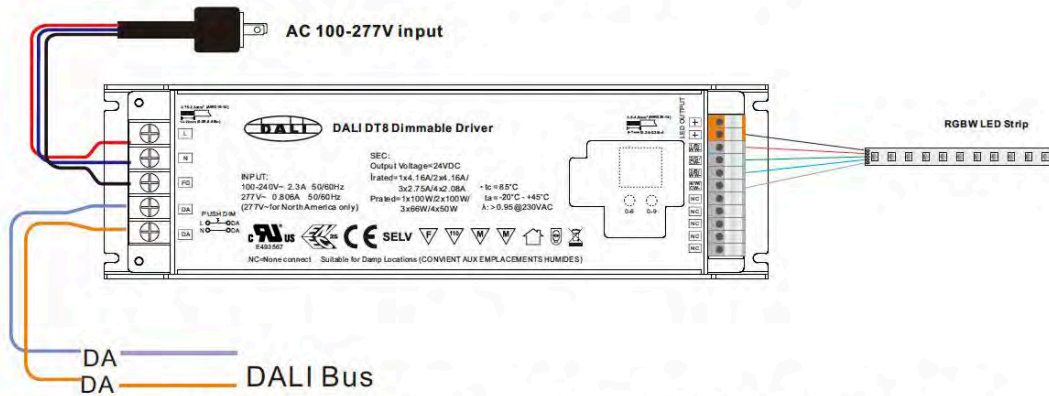
WIRING DIAGRAM - with DALI Master

1.1 When **Tc** multi-addresses Tc device type selected



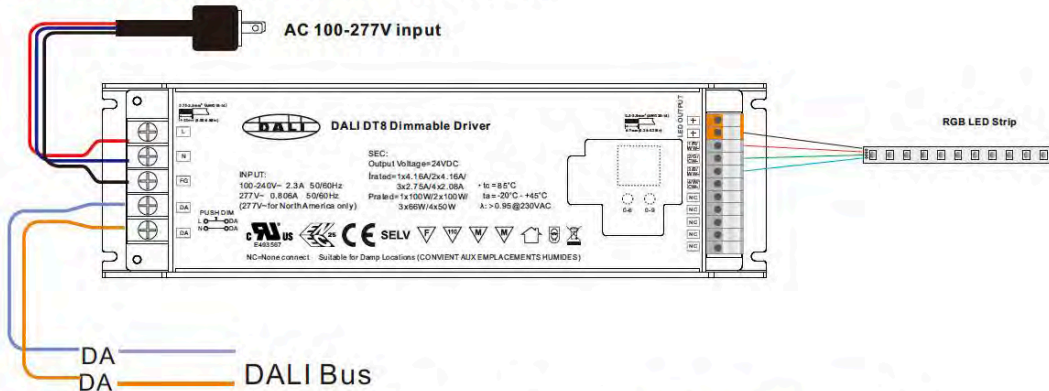
Note: 1) Please make sure that the DALI master controller supports Tc color type commands.
 2) The control gear will be discovered by master controller as 2 separate Tc devices.

1.2 When **HE** multi-addresses XY+Single Color(DT6) device type selected



Note: 1) Please make sure that the DALI master controller supports XY & DT6 color type commands.
 2) The control gear will be discovered by master controller as 2 separate devices: XY, DT6

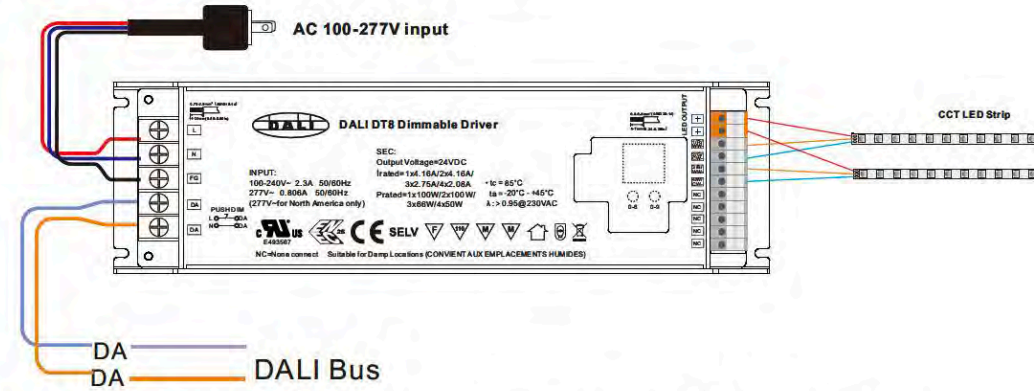
1.3 When **H4** single-address XY device type selected



Note: Please make sure that the DALI master controller supports XY color type commands.

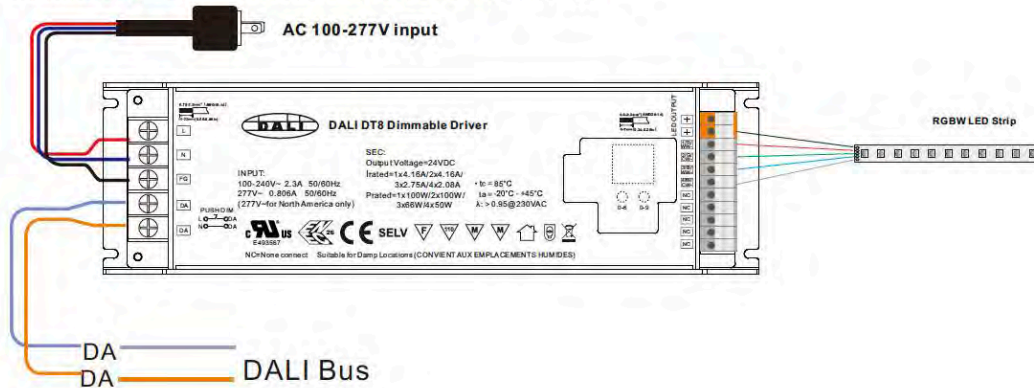
WIRING DIAGRAM - with DALI Master (continued)

1.4 When **r7C** single-address Tc device type selected



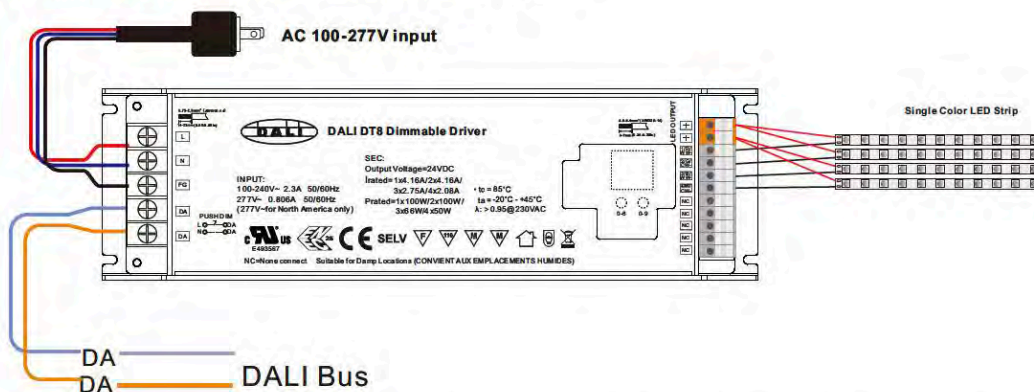
Note: 1) Please make sure that the DALI master controller supports Tc color type commands.
 2) 2 groups CCT LED are controlled together.

1.5 When **r9** single-address RGBWAF device type selected



Note: Please make sure that the DALI master controller supports RGBWAF color type commands.

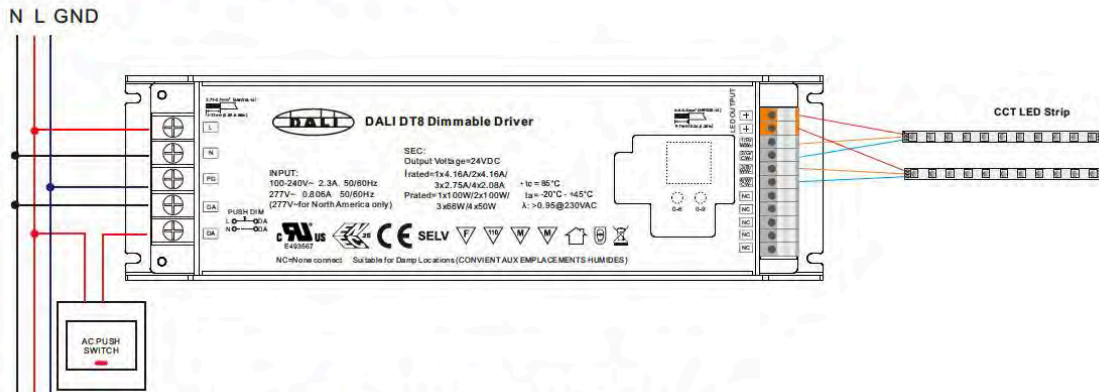
1.6 When **r6** single-address DT6 device type selected



Note: The control gear will be discovered by DALI master as a DT6 device, 4 channels controlled together.

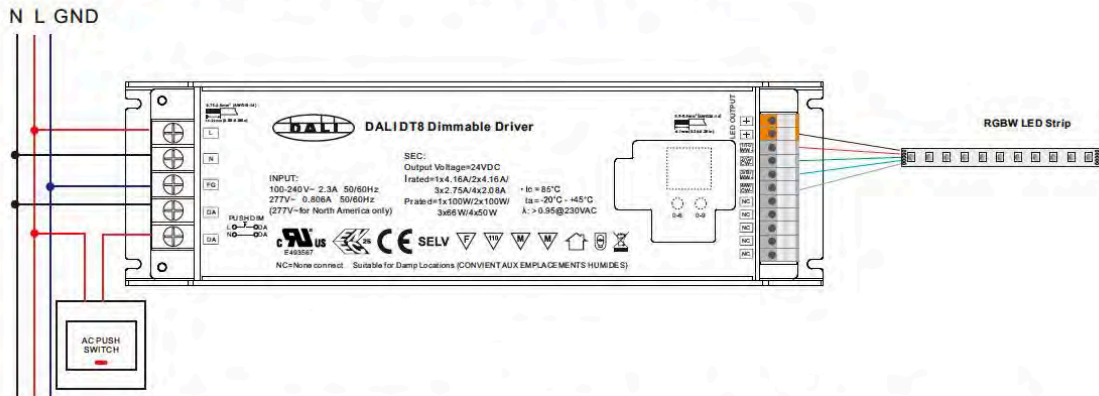
WIRING DIAGRAM - with PUSH Dimmer

2.1 When **Tc** multi-addresses Tc device type selected



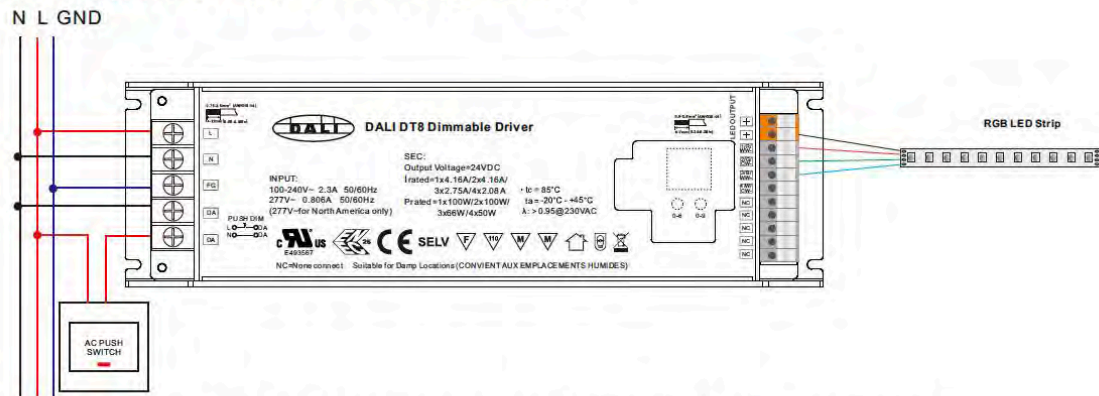
Note: only the 1st group CCT LED can be controlled under this mode.

2.2 When **H6** multi-addresses XY+Single Color(DT6) device type selected



Note: 1) Please make sure that the DALI master controller supports XY & DT6 color type commands.
2) The control gear will be discovered by master controller as 2 separate devices: XY, DT6

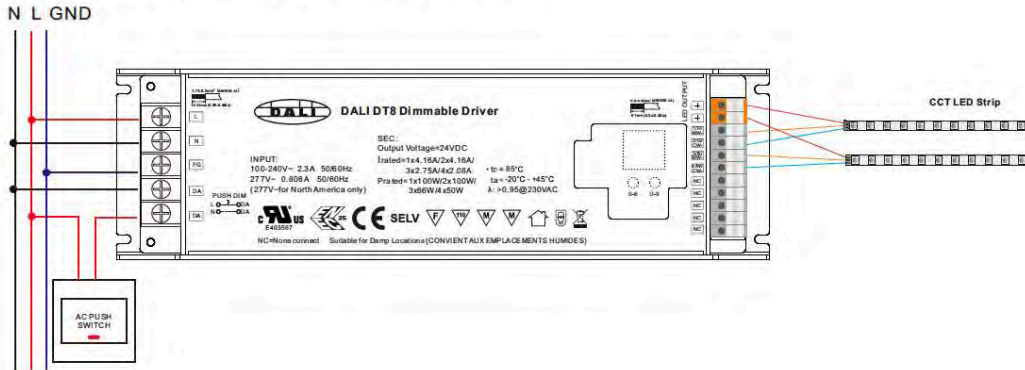
2.3 When **H4** single-address XY device type selected



Note: Please make sure that the DALI master controller supports XY color type commands.

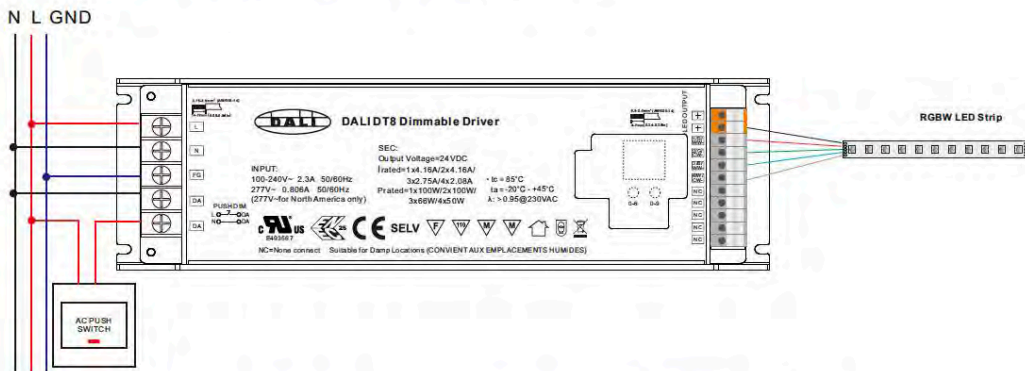
WIRING DIAGRAM - with PUSH Dimmer (continued)

2.4 When **r7C** single-address Tc device type selected



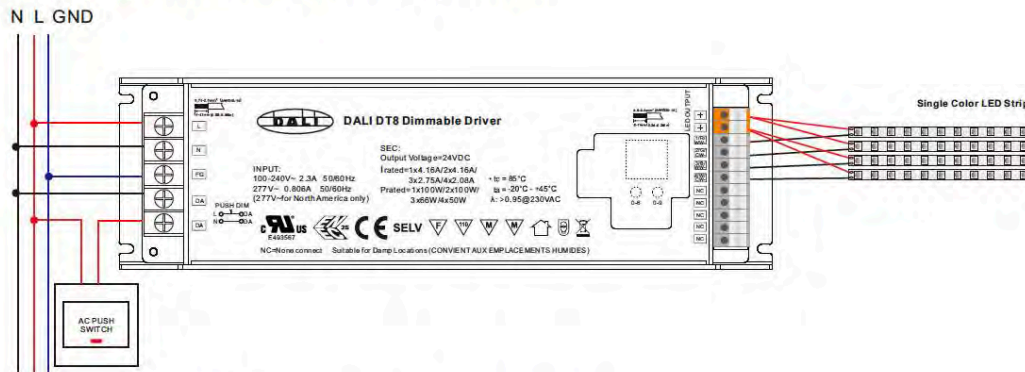
Note: 1) Please make sure that the DALI master controller supports Tc color type commands.
2) 2 groups CCT LED are controlled together.

2.5 When **r9** single-address RGBWAF device type selected



Note: Please make sure that the DALI master controller supports RGBWAF color type commands.

2.6 When **r6** single-address DT6 device type selected



Note: all 4 channels are controlled together under this mode.