

DESCRIPTION

DC-DC track driver is an electronic driver for track lighting, featuring constant current output.

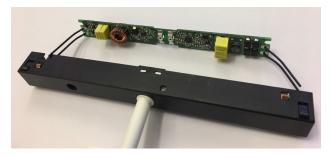
Driver for built in use, ultra compact size, compatible with 48V Stucchi Track Adapter series 9500. It can be used for lighting equipment protection class-2.

APPLICATION

It is suitable for 24 and 48V (Low Voltage) Track installation.

FEATURES

- Unique Led Driver for multifunction output:
 - Constant Current range selectable settings;
 - Constant Voltage, selectable value;
 - GU5.3 LED (SORAA VIVID; PHILIPS MASTER LEDspot)
- 40W Output power
- Class-2 power unit;
- Ripple Free;
- Flicker Free IEEE 1789;
- Smooth dimming from 100% to 0.1%;
- High efficiency: 94% at full load;
- Protection against output short circuits, input polarity inversion;
- Wise Programming with SW **DEVELED SUITE**;
- Dimensions (L x W x H): 125 x 14.5 x 11 mm; (inch:4.92 x 5.7 x 0.43)
- Standard safety: UL 8750 EN 61347-1 EN 61347-2-13;
- Standard EMC: EN 55015 FCC part 15, EN 61547;
- Typical lifetime > 50.000 hours;
- 5 years warranty;



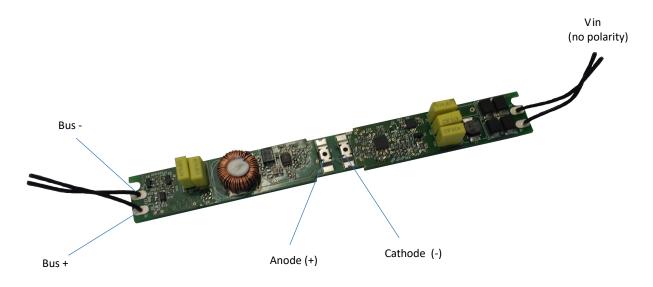


Electrical	
Vin voltage range	24/48V
F#:	2000/ © full land
Output Power	> 90% @ full load 0 ÷ 40W
CONSTANT CURRENT MODE	0 ÷ 40vv
Output Current	100ma : 1000ma (Programmable full range with SW DEVELED SUITE)
	100ma ÷ 1000mA (Programmable full range with SW DEVELED SUITE) 2.5 ÷ 40Vdc
Output voltage range	
Dimming	Smooth dimming from 100% to 0.1%;
CONSTANT VOLTAGE MODE	120 AVda (December a black with CW DEVELED CHIEF)
Output Voltage	12/24Vdc (Programmable with SW DEVELED SUITE)
Output current	1000mA max
Dimming	from 100% to 1%;
GU5.3 LED	
Output Voltage	12Vdc
Output current	1000mA max (max power 12W)
Dimming	from 100% to 1% (Min level configurable with SW DEVELED)
Current regulation	I < 100mA Digital;
	I > 100mA Analogic;
	(I value SW configurable)
Current regulation range:	±3% including temperature variations
Start-Up Time	<100ms
Stand Alone Dimming	- 0-10V
(not isolated)	- 1-10V
	- PWM (*)
	- DIGITAL CONTROL
External interface Dimming	- 0-10V/1-10V/PWM
(isolated)	- DALI
	- BLUETOOTH Mesh (Bluetooth Low Energy v4.2, IEEE 802.15.4)
	- CASAMBI; XICATO GalaXI; Silvair; others on request
	- DMX (on development)
	- Compatible with Emergency module compact controller for Emergency light function (pending)
	companies with 2 modern companies of the
Protection	
Over Current	Yes
Over Current Short Circuit	Yes On Output Port, Recovers automatically after fault condition is removed.
Over Current Short Circuit	On Output Port. Recovers automatically after fault condition is removed.
Short Circuit	On Output Port. Recovers automatically after fault condition is removed. Restarting after 10sec with slow fade time.
Short Circuit Over Voltage	On Output Port. Recovers automatically after fault condition is removed. Restarting after 10sec with slow fade time. Yes
Short Circuit Over Voltage Against Polarity inversion	On Output Port. Recovers automatically after fault condition is removed. Restarting after 10sec with slow fade time. Yes Yes
Short Circuit Over Voltage Against Polarity inversion Over Temperature	On Output Port. Recovers automatically after fault condition is removed. Restarting after 10sec with slow fade time. Yes Yes No
Short Circuit Over Voltage Against Polarity inversion Over Temperature Against mains voltage spikes	On Output Port. Recovers automatically after fault condition is removed. Restarting after 10sec with slow fade time. Yes Yes No On Input Port.
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Short Circuit Over Voltage Against Polarity inversion Over Temperature Against mains voltage spikes Against Polarity inversion Environment Working temperature Max temperature Storage Temperature/Humidity Standard Safety EMC Emission EMC Immunity Mechanical Dimensions	On Output Port. Recovers automatically after fault condition is removed. Restarting after 10sec with slow fade time. Yes Yes No On Input Port. On Input and Dimming Port. -25° ÷ +50°C 110°C on Tc point -40° ÷ +80°C; 10 ÷ 95%RH UL 8750 - EN 61347-1 - EN 61347-2-13 FCC part 15 - EN 55015 EN 61547 125 (L) x 14.5 (W) x 11 (H) mm; (inch:4.92 x 5.7 x 0.43)
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REQUIREMENTS

CONNECTIONS



POWER SUPPLY

An European class I & II or US NEC class 2 constant voltage supply, with isolated output of 48 V dc \pm 5 % must be used to power the Led Driver TRACK . Maximum voltage output should not exceed 55 Vdc. Input signal needs to be applied to wires Bus + and Bus -.

DIMMING FUNCTION

To regulate the LED light intensity, a signal needs to be applied to wires Bus + and bus -. If no signal is applied to BUS, the output current is at maximum level.

GU5.3 LED



Soraa® is a registered trademark of Soraa inc.
Phillips® is a registered trademark of Signify N.V.
Sunlight 2® is a trademark of L.T.F, L.L.C.
Megamen® is a registered trademark of Neonlite distribution limited.

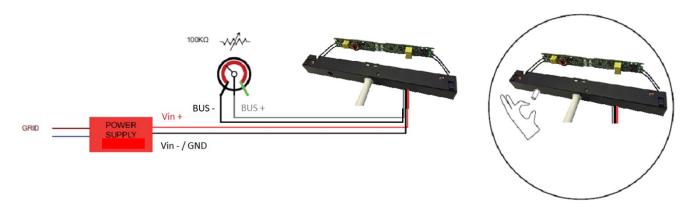


STAND ALONE

STAND ALONE SOLUTION - POTENTIOMETER

- 0-10V ANSI E1.3, Entertainment Technology;
- 1-10V IEC60929 (Annex E) (100kΩ);
- PWM Standard;

Example of TRACK Application with $100k\Omega$ Trimmer Potentiometer;

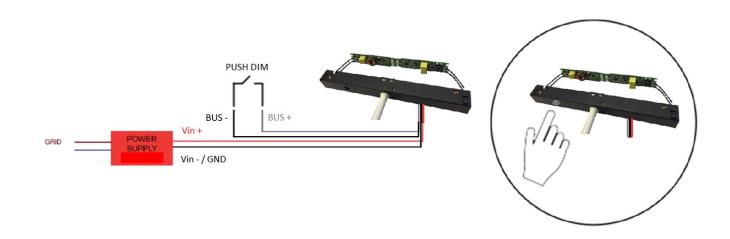


STAND ALONE SOLUTION - PUSH DIM

LED DRIVER built in lamp with PUSH DIM.

- Push for on/off;
- Keep pushed for dimming up and down;

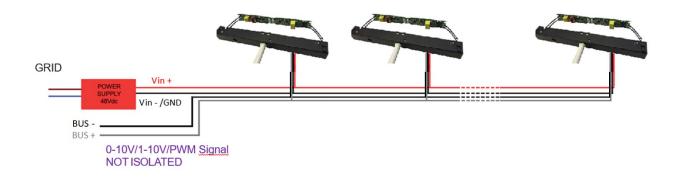
Example of TRACK Application:



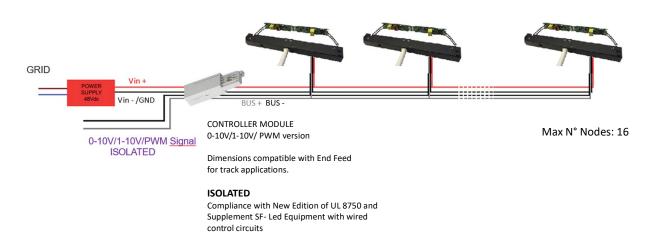


SYSTEM ARCHITECTURE

0-10V/1-10V/PWM ARCHITECTURE (NOT ISOLATED)



0-10V/1-10V/PWM ARCHITECTURE WITH EXTERNAL ISOLATED INTERFACE



DALI ARCHITECTURE

- DALI low voltage is a Low Voltage BUS using a DALI STANDARD protocol.
- Throw controller, it is possible manage every single Led Driver TRACK as an indipendent address.



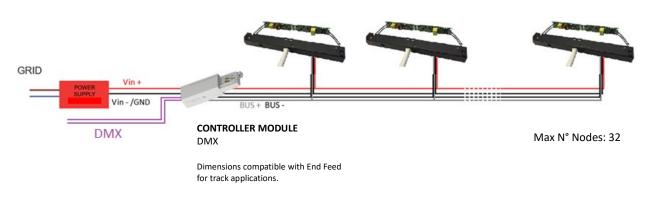


BLUETOOTH ARCHITECTURE

- Throw controller, it is possible manage every single Led Driver TRACK as an indipendent address.



DMX COMPACT CONTROLLER Version on development.

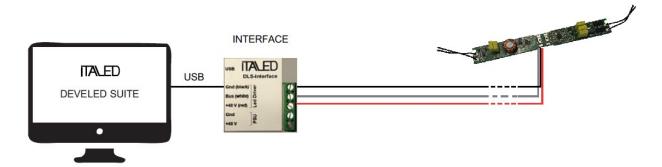


(*) speed equal to Dali speed as architectural lighting systems



PROGRAM TOOL SW

Full Program and Configuration using PC and Interface:



SW DEVELED SUITE

- Tool SW for programming and configuration:
- Set any constant lout value from the Nominal Range;
- Select Linear or Logarithm dimming curve;
- Select Dimming Protocol
- Set Fade Time value
- Set Minimum Dimming lout Value;
- Set Thermal Thresholds of Thermal Protection Algorithm;
- Read tc Realtime Temperature;
- Read SN, FW/HW version, OEM;
- Read Diagnostic: temperature, protection events count, failres, lifetime (pending);
- Enabling special algorithm: CLO, led temperature protection, etc (pending);
- It is possible to create and download custom configuration

DLS INTERFACE:

Dimensions: 15mm x 43mm x 43mm

(inch: 0,59 x 1,69 x1,69)

