





Programmable and dimmable driver module for Stucchi track adapters



Features

- PCB dimension: 47,6x14 mm;
- Compatible with low voltage electrified rails, Multisystem Stucchi series or similar versions;
- Step-down converter;
- Programmable current output @150/900*mA;
- Input voltage: 19V to 51V;
- Output voltage: min 6.5V;
- PWM Dimming;
- WAGO 2059 series 2 pole;
- Protected against voltage peaks and short circuit;
- Use only in dry environments.

Board features									
Material	Aluminum								
Solder	White								
Connections									
Cable	Optional								
Connector	Wago 2059 series 2 Pole								
Conditions									
Max. temp. (Tc)	90°C								
Operating temp. Range	-40°C to +85°C								

Applications



Indoor

Commercial Spotlight









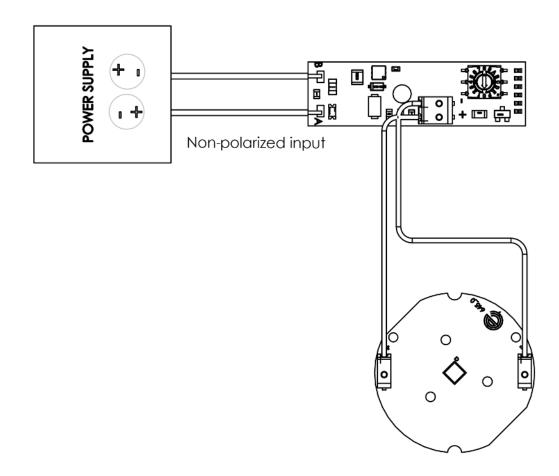
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Code	Power Supply [Vdc]	Output current [mA]	Power output [W]	Dimension [mm]
R548911DRV1100	24-48 Vdc	150-900*	0,97-43,2	
R548911DRV1101	24-48Vdc	350*	8,4-16,8	47,6x14x6,1mm

 Typical Value refers to final part number +/-5% output current accuracy

Other current set on request

Wiring diagram

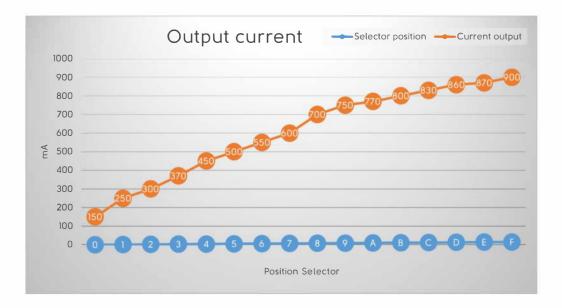






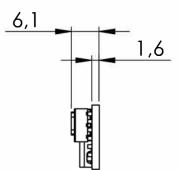
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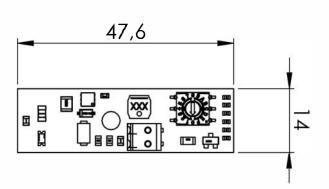
Output current configuration



Position Selector	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Current (mA)	150	250	300	370	450	500	550	600	700	750	770	800	830	860	870	900

Mechanical drawing







Assembly and Safety Information

Installation must be carried out under observation of the relevant regulations and standards. The LED modules are designed for operation within a casing or luminaire. Installation must be carried out in a voltage-free state (i.e. disconnection from the mains). The following advice must be observed; non-observance can result in the destruction of the LED assembly modules, fire and/or other hazards.

• Consider safety regulations acc. EN 60598 in the luminaire design, especially when the operating LED driver is not galvanic isolated.

- In mode of operation regard to sufficient isolation.

– Live parts must not be touched in operation mode. Danger in life!!!

• ESD (electrostatic discharge) protection measures must be observed when handling and installing the LED modules. See VS's application notes on ESD protection.

• Adequate anti-static electricity measures, including the use of conductive shoes, ionizers, work bench grounding, wrist straps, flooring and stools should be used.

• LED assembly modules must not be subjected to any undue mechanical stress, e.g.:

- do not treat as bulk cargo
- avoid shear and compressive forces during handling and installation
- do not damage circuit paths
- avoid any pressure on the light emitting surface

• Safe operation only possible by the use of external constant current sources (Imax. see table "Electrical Characteristics").

• Operation only with power supply units that feature the following protection:

- Short-circuit protection
- Overload protection

Overheating protection

• The module can be fixed with M3 screws. Fixation only with flat or cylinder head screws (M3) (no countersank screws) Max. torque: 1.2 Nm (M3)

• Please ensure the correct polarity of the leads prior to commissioning. Reversed polarity can destroy the modules.

• For interconnection the LED modules is equipped with push-in terminals (WAGO 2060).

• Safety regulations acc. to EN 60598 (or further standards) has to be observed if the maximum output voltage exceed the permitted touchable value.

• The following points must be observed when connecting LED modules in parallel:

- All LED strings that are wired in parallel must contain the same number of LEDs (symmetrical loading).

- Owing to differing forward biases, there can be a difference of up to 10% in brightness between modules connected in parallel.

• To ensure problem-free operation, the specified maximum temperature at the tp point (see "Operating Life") must be observed (and measured in accordance with EN 60598-1). To satisfy this point, it may be necessary to put measures in place to ensure any heat is dissipated from the PCB to the environment.

• In the event of outdoor applications or applications in damp locations, care must be taken to protect LED assembly modules against humidity, splashes and jets of water. Any corrosion damage resulting from humidity or contact with condensation will not be recognized as a defect or manufacturing fault. LED assembly modules are not specially protected against foreign bodies or dust. Depending on the type of application, further protection must be ensured to prevent dust and foreign bodies from entering.

• Due to the manufacturing process, the PCBs of the LED assembly modules can have sharp edges and corners. Care must therefore be taken during handling and installation to avoid injury.

• For optimal load of used constant current driver the modules can only be connected in series. The quantity of LED modules is limited by the sum of forward voltage and the capacity of used constant current driver. Safety regulations acc. to EN 60598 has to be observed if the sum of forward voltage exceed the permitted touchable value.

• Operating LED modules in the presence of certain chemical substances or in chemically enriched (aggressive) environments can impair module functionality or even cause total module failure.

• The photobiological safety of the LED modules must be classified into risk groups in accordance with IEC / TR 62778: risk group 1 (except HB, 6500 K, > 500 mA: risk group 2)

Applied Standards

CEI EN IEC 55015

Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment

EN 61347-1

Lamp controlgear Part 1: General and safety requirements

EN 61347-2-13

Lamp controlgear Part 2-13: Particular requirements for D.C. or A.C. supplied electronic controlgear for led modules

EN 61547

Equipment for general lighting purposes - EMC immunity requirements

VDE 0710-T14

Complies with the temperature limits of VDE 0710 Tl4 ("MM" marking) and for mounting on normally flammable surfaces, clauses 4.16.2 of the standard EN 60598-1: 2015.UL 8750

CSA C22.2 No.250.13

Light Emitting Diode (LED) Equipment for Lighting Applications