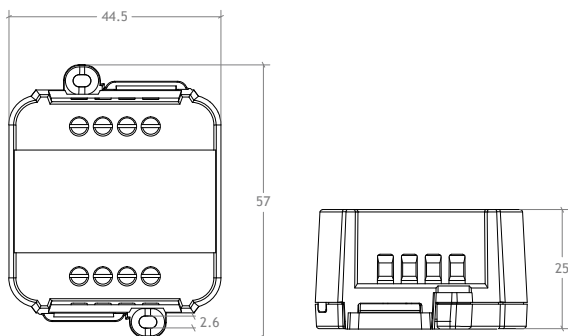




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Product drawing



USP's

- Great for single colour and high power LED strips
- Cost effective solution
- Optimised dimming curve
- Wide input voltage range
- Official DALI standard compliant
- Small size surface mounted
- Fully tested, 5 year system warranty
- DALI bus controlled
- Suitable for "stand alone" (broadcast) or DALI Networks
- Impressive amount of safety circuits
- Soft start/stop dimming
- N.O. push dimming option (1-100%)

liniLED® Control

We strive to provide the best possible solutions for the linear LED industry. Therefore we've launched a complete range of functional user friendly and reliable LED drivers which can be used for nearly every situation.

Our new LED drivers are fully designed and manufactured in Europe. We only use high quality components that meet our highest standards. All products are fully factory tested and covered by our 5 year system warranty.

Dim 1-DALI

This small but powerful constant voltage LED driver can be used to control single coloured LED products. The 16 bit dimming resolution guarantees smooth dimming from 0.1 to 100%. Because of the powerful output you can now control LED strips with higher lumen packages in full spool lengths, such as 10 metres of liniLED® High Power and upward.

The DALI bus interface can be used for simple installations using a universal DALI dimmer (broadcast setup), or for integration in a professional DALI network. On top of that, this driver features a N.O. (Normally Open) push dimming control function, which allows the driver output to be dimmed by a regular N.O. pushbutton. An external power supply is always required to drive the Dim 1-DALI and due to the wide input voltage range, adjustable power supplies can be used to easily compensate for any voltage drops.

For the latest version of this datasheet, visit our website: www.liniLED.com.



Technical specifications

Dim 1-DALI

Product code	11131
Input signal	DALI/N.O. push dimming
Input voltage (V_{in})	10.8 ... 52.8 V DC
Input current (I_{in}) ¹	Max. 8 A (peak)
Max. load @ 24 V DC	156 W
Output channels	1
Output current per channel ¹	Max. 8 A (peak) Max. 7.5 A @ 20°C Max. 6.5 A @ 40°C
Output signal	D-PWM, 16 bit resolution
Output type	Constant voltage, common anode
Output voltage (V_{out})	= V_{in}
Typical efficiency	> 95%
Standby power @ 24 V DC	Max. 500 mW
Dimming range	0.1 ... 100%
Dimming frequency	250 Hz
IP rating	IP20
Storage temperature	-40 ... 60°C
Ambient operating temperature (T_a)	-10 ... 40°C
Dimensions	45 x 57 x 25 mm
Packaging dimensions	68 x 56 x 35 mm
Weight	40 g
Housing material	Self-extinguishing PC/ABS
Thermal shutdown ²	150°C
Wiring	2.5mm ² solid - 1.5mm ² stranded - 30/12 AWG

¹ Maximum value, dependent on ventilation conditions.

² Provided by MOSFET internal shutdown.

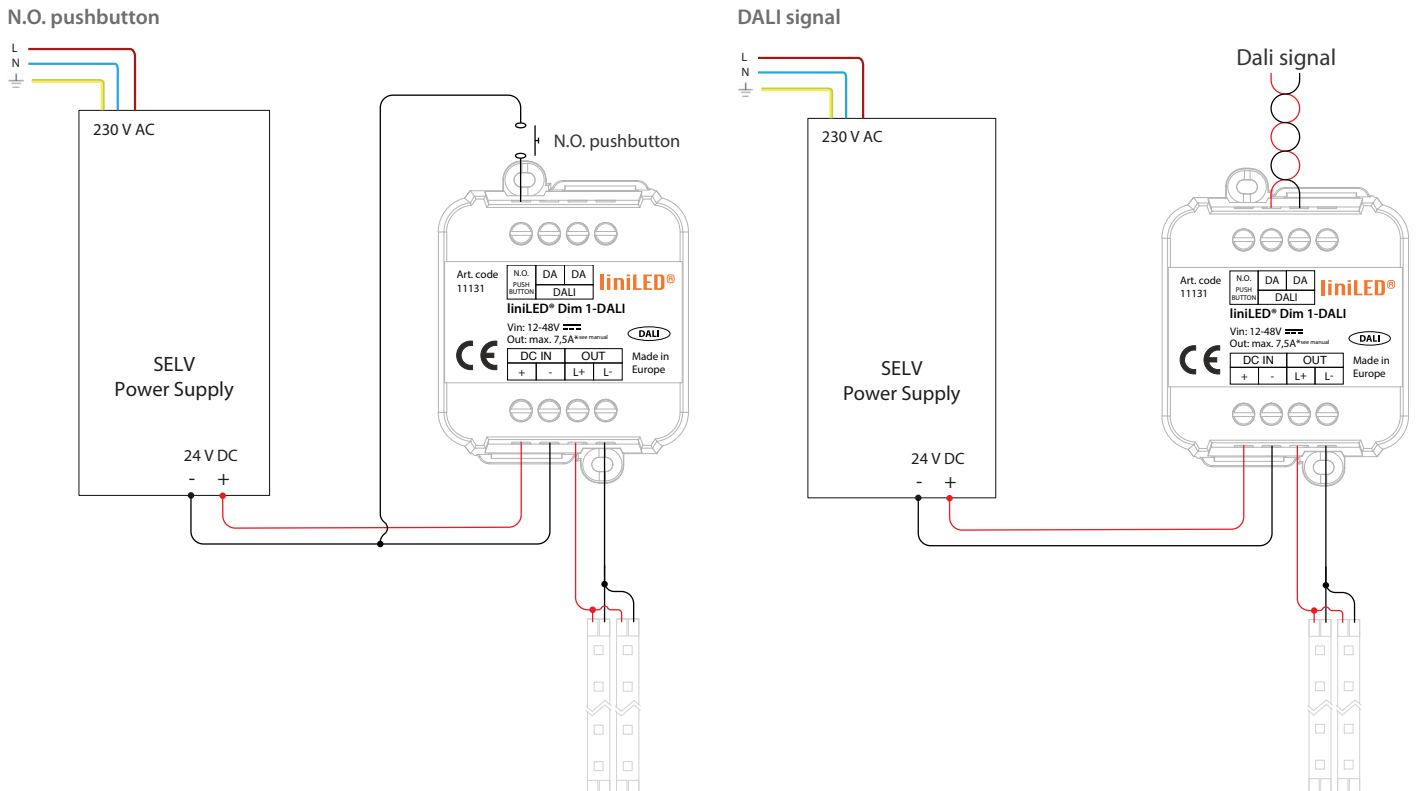
Protection circuits

OTP	Over temperature protection ²
OVP	Over voltage protection ³
UVP	Under voltage protection ³
RVP	Reverse polarity protection ³
IFP	Input fuse protection ³
SCP	Short circuit protection
CLP	Current limit protection

² Provided by MOSFET internal shut down.

³ Only control logic protection.

Wiring schemes



Reference standards

This product is designed and produced according to following standards.

EN 61347-1:2008 + A1:2011 + A2:2013	Lamp control gear - Part 1: General and safety requirements
EN 55015:2013+A1:2015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
EN 61547:2009	Equipment for general lighting purposes - EMC immunity requirements
EN 50581:2012	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances
IEC/EN 62386-101	Digital addressable lighting interface - Part 101: General requirements - System
IEC/EN 62386-102	Digital addressable lighting interface - Part 102: General requirements - Control gear
IEC/EN 62386-207	Digital addressable lighting interface - Part 207: Particular requirements for control gear LED modules (device type 6)

Symbols



Manufacturer's declaration that the product meets the applicable EC directives.



Restriction of Hazardous Substances (RoHS): product complies with the RoHS directive and each homogeneous material does not exceed the limits for the materials mentioned under the RoHS directive (Pb, Hg, Cd, Cr6+, PBB and PBDE).



Protected against ingress of solid foreign objects ≥ 12.5 millimetres. Not-protected against ingress of water.



Electrical appliance class III: this product is designed to be supplied from an extra-low voltage (≤ 60.0 V DC or ≤ 42.4 V AC).



Operating voltage of 12-48 V DC (please check or refer to LED product specification).



System guarantee of 5 years when the complete system consist of liniLED® products with the 5 years system warranty logo. Terms & conditions apply.

Disclaimer

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