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USPs

Professional grade LED driver Single colour, Tunable White, RGB and RGBW modes DIN rail or wall mounting Wide range of stand alone programs Intelligent local control options Easy to integrate in any building management system Soft start / soft stop Selectable output curve: Linear / Quadratic / Exponential Wide input voltage range Compact size surface mounted Fully tested, 5 year system warranty

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 4-DALI-PRO

This is our professional DALI driver, which is packed with lots of powerful and unique features. The 16 bit dimming resolution guarantees smooth dimming from 0.1 to 100%. Because of the powerful outputs 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 high power mode (requires rewiring) even doubles the total power capacity to 480 Watts.

Function mapping through analogue inputs allows for easy controlling and integrating in building management systems. This driver is built for the future and is already equipped with innovative control profiles, e.g. Tunable White, dim to warm, RGB(W) conversion, colour correction, etc. This driver can be mounted to a wall or 35 mm DIN rail. The Pro series is specifically designed for professional high end projects and applications such as corporate buildings, public projects, hospitality, entertainment, luxury yachts, cruise ships, etc.

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





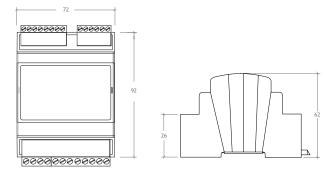








Product drawing



Technical specifications

Dim 4-DALI-PRO

Product code	11136
Input signal	DALI (4 analogue inputs 0-10V/1-10V/ Potentiometer/Dry contacts for N.O. pushbuttons)
Input voltage (V _{in})	10.8 52.8 V DC
Input current (I _{in}) ¹	= I _{out}
Max. load @ 24 V DC ¹	480 W (high power mode)/240 W (normal mode)
Output channels	4
Output current per channel 12	Max. 5 A
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% (1 100% in N.O. push mode)
Dimming frequency	300/600/1200 Hz (selectable)
IP rating	IP10
Storage temperature	-40 60°C
Ambient operating temperature (T _a) ¹	-40 60°C
Dimensions	72 x 92 x 62 mm
Packaging dimensions	125 x 85 x 71 mm
Weight	125 g
Housing material	Self-extinguishing PC/ABS
Thermal shutdown ³	150°C
Wiring	Buttons & BUS: 1.5 mm ² solid - 1.0 mm ² stranded - 30/14 AWG
	Power & LEDs: 2.5mm ² solid - 1.5mm ² stranded - 30/12 AWG
Control supply current	0.5 mA (only for 1-10V)
Control required current (Max.)	0.1 mA (not for 1-10V)



 $^{^1}$ Maximum value, dependent on the ventilation and environmental conditions. 2 Max load definition ($I_{ToT} = I_{L1}, + I_{L2}, + I_{L3}, + I_{L4}$): 10 A (normal power mode)/20 A (high power mode). 3 Provided by MOSFET internal thermal shut down.

Protection circuits

ОТР	Over temperature protection ³
OVP	Over voltage protection ⁴
UVP	Under voltage protection ⁴
RVP	Reverse polarity protection ⁴
IFP	Input fuse protection ⁴
SCP	Short circuit protection
ОСР	Open circuit protection
CLP	Current limit protection

³ Provided by MOSFET internal shut down. ⁴ Only control logic protection.

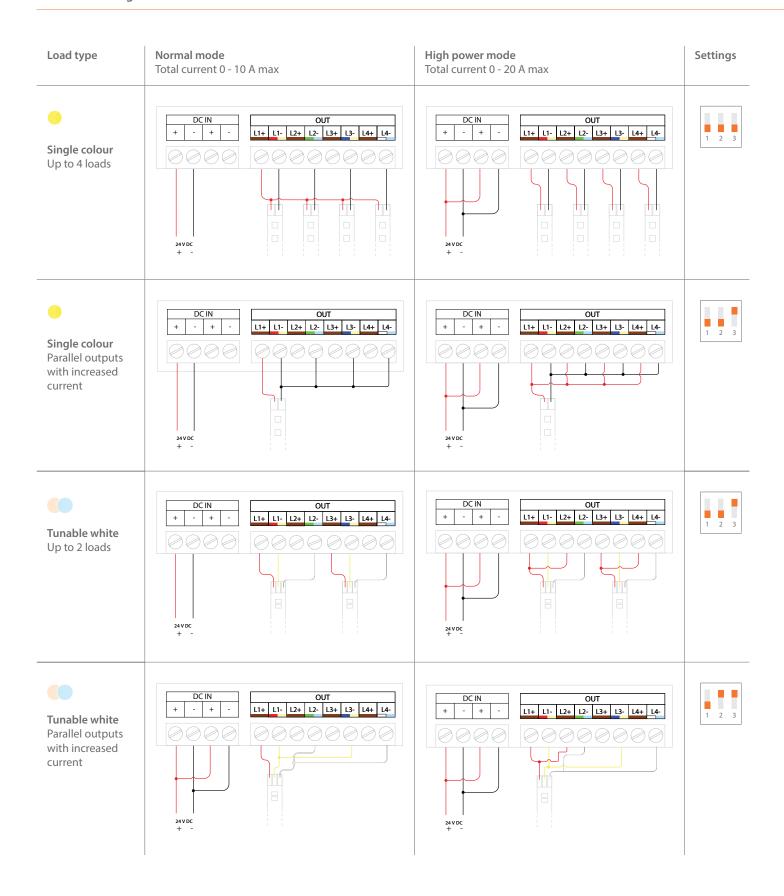
Reference standards

This product is designed and produced according to following standards.

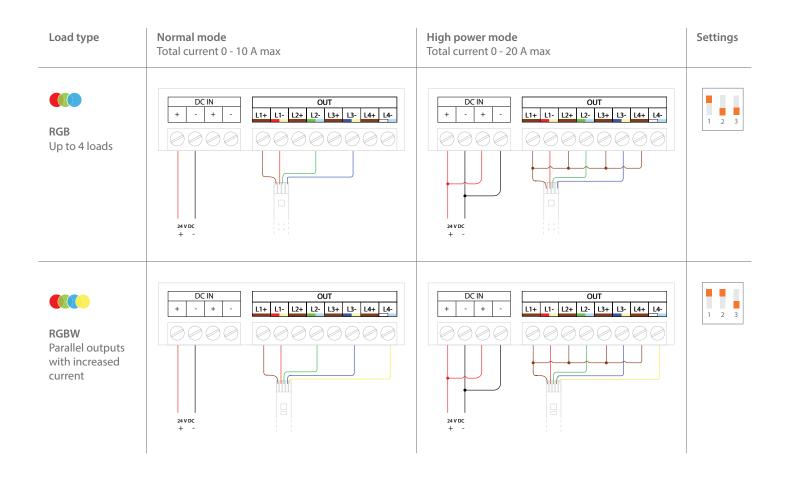
EN 61347-1:2008 + A1:2011 + A2:2013	Lamp control gear - Part 1: General and safety requirements
EN 55015:2013+A1:2015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
EN 61547:2009	Equipment for general lighting purposes - EMC immunity 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)
IEC 60929-E.2.1	Control interface for controllable ballasts - control by d.c. voltage - functional specification
ANSI E 1.3	Entertainment Technology - Lighting Control Systems - 0 to 10V Analog Control Specification



Connection diagram



Connection diagram





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 objects over 50 mm, e.g. accidental touch by persons hands, but no protection against deliberate contact with a body part and no protection against liquids.



Electrical appliance class III: this product is designed to be supplied from an extra-low voltage ($\leq 60.0 \text{ V}$ DC or $\leq 42.4 \text{ V}$ AC).



Operating voltage of 12-48 V DC (please check of 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.

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