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USP's

Wide input voltage range DMX512-A protocol (fully addressable) DMX RDM capable with auto addressing Master/slave function including optional phase shifting (phasing) **Function mapping** Easy to integrate in building management systems Dim to warm dimming profile Soft start/stop dimming Four selectable dimming curves Three selectable D-PWM frequencies for flicker free dimming Four Analogue inputs for dimming and function mapping 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-DMX-PRO

This is our professional DMX 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.



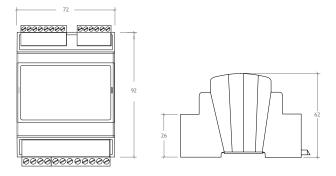








Product drawing



Technical specifications

im 4				

Product code	11135				
Input signal	DMX512-A/DMX-RDM, fully addressable (4 analogue inputs 0-10V/1-10V/Potentiometer/N.O. dry contacts with or without memory)				
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 $_{\text{TOT}} = I_{1.1} + I_{1.2} + I_{1.3} + I_{1.4}$): 10 A (normal power mode)/20 A (high power mode). 3 Provided by MOSFET internal thermal shut down.

Protection Circuits

OTP	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.

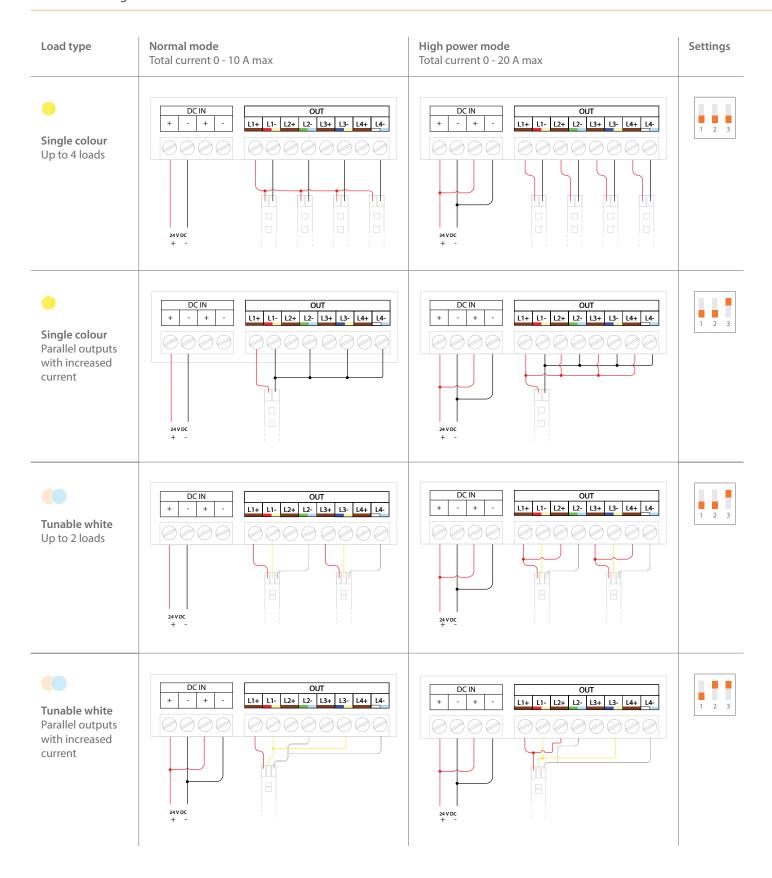
Reference standards

This product is designed and produced according to following standards.

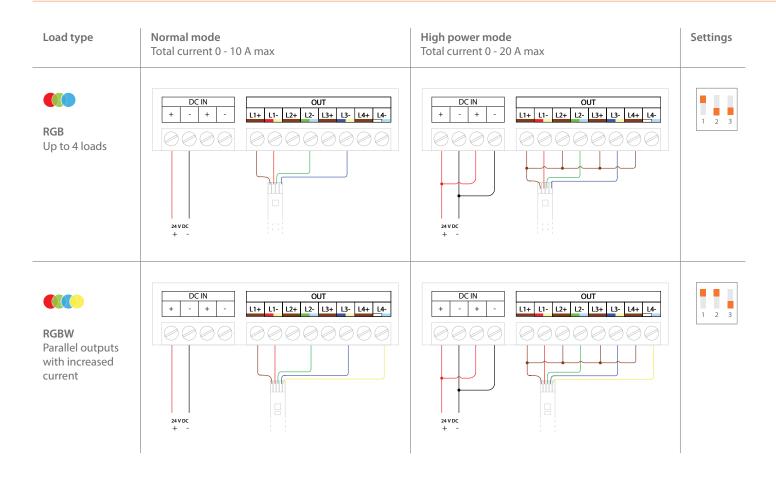
EN 61347-1:2008 + A1:2011 + A2:2013	Lamp control gear - Part 1: General and safety requirements
EN 55015:2013+A1:2015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
EN 61547:2009	Equipment for general lighting purposes - EMC immunity requirements
EN 50581:2012	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances
IEC 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
ANSI E1.11	Entertainment Technology - USITT DMX512-A - Asynchronous Serial Digital Data Transmission Standard for Controlling Lighting Equipment and Accessories
ANSI E1.20	Entertainment Technology - RDM - Remote Device Management over USITT DMX512 Networks



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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