

**Converter DMX to DALI (A69791)**



**Product description**

- Converter+bus
- DC Input: 12-24-48 Vdc
- BUS Command: DMX o DALI
- Converter from DMX protocol to DALI protocol
- Possibility to control device with protocol DALI by protocol DMX and viceversa
- Extended temperature range

➤ **PRODUCT CODE**

CODE	Input Voltage	Channel	Input command	Output command	
DGD-DMX-DALI <sup>1</sup>	12-48V DC	1	DMX	DALI	CONVERTER

➤ **PROTECTIONS**

<b>OVP</b>	Over voltage protection <sup>2</sup>		✓
<b>UVP</b>	Under voltage protection <sup>2</sup>		✓
<b>RVP</b>	Reverse polarity protection <sup>2</sup>		✓
<b>IFP</b>	Input fuse protection <sup>2</sup>		✓

➤ **REFERENCE STANDARDS**

EN 61347-1	Lamp controlgear – Part 1: General and safety requirements
EN 55015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
EN 61547	Equipment for general lighting purpose – EMC immunity requirements

➤ **TECHNICAL SPECIFICATION**

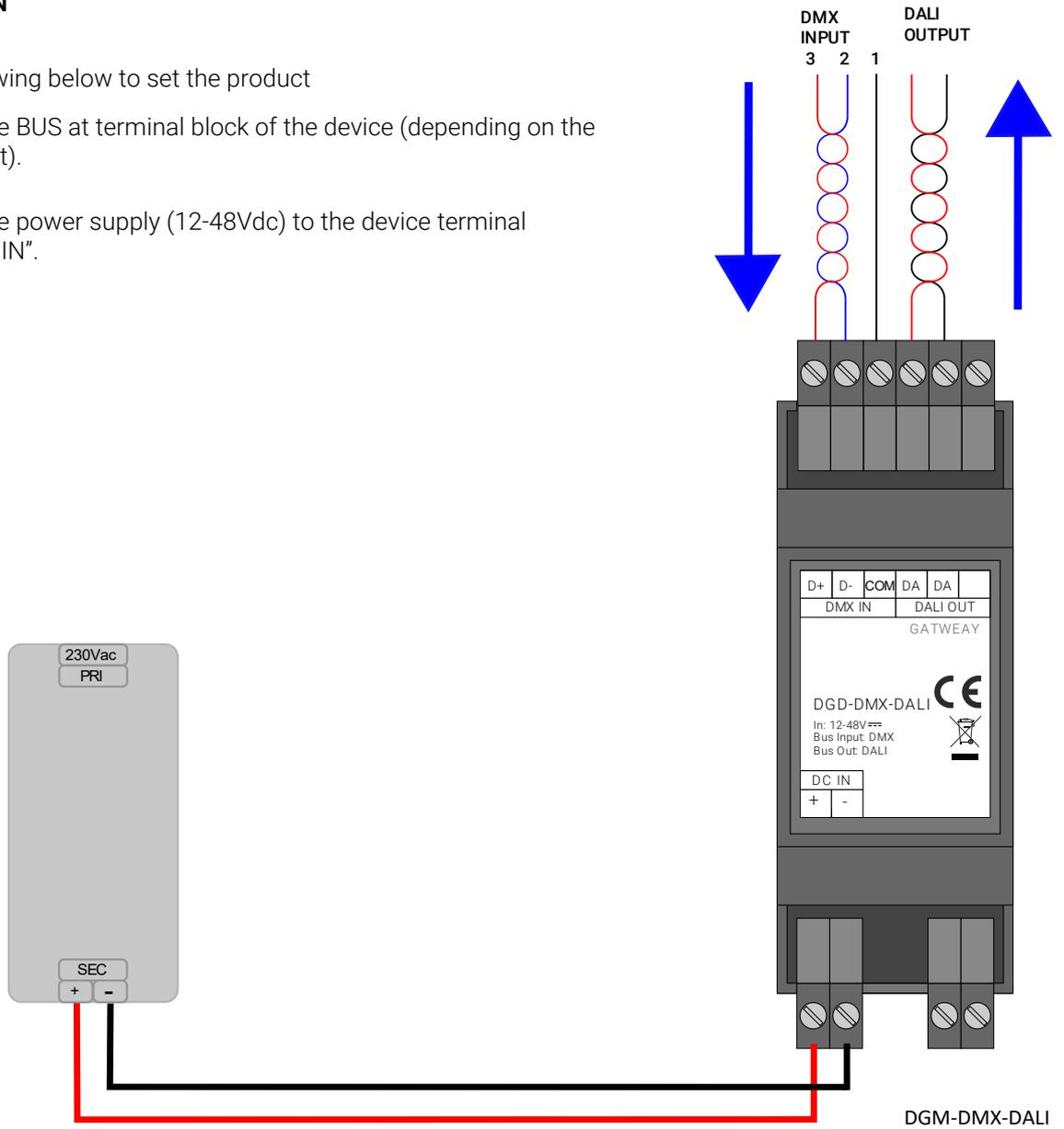
		Constant Voltage
Supply Voltage		min: 10,8 Vdc .. max: 52,8 Vdc
Nominal Power <sup>3</sup>		DMX-DALI Variant Typ
	@12V	101 mW
	@24V	161 mW
	@48V	274 mW
Power loss in stand by mode		<500mW
Storage Temperature		min: -40 max: +60 °C
Ambient Temperature <sup>3</sup>		min: -10 max: +40 °C
Protection grade		IP10
Wiring		2.5mm <sup>2</sup> solid – 2.5mm <sup>2</sup> stranded – 30/12 AWG
Wire preparation length		5,5 – 6,5 mm
Mechanical dimensions		92 x 36 x 62 mm DIN RAIL 2M
Package dimension		124 x 71 x 48 mm
Casing material		Plastic
Weight		90g

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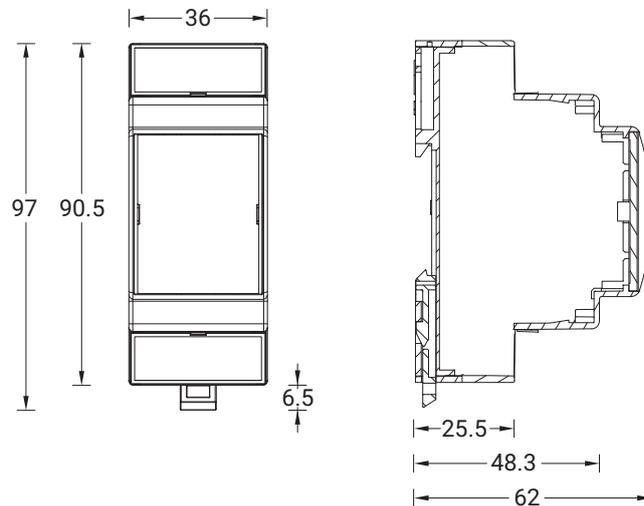
➤ **INSTALLATION**

Follow the drawing below to set the product

- 1) Connect the BUS at terminal block of the device (depending on the DGD variant).
- 2) Connect the power supply (12-48Vdc) to the device terminal blocks "DC IN".

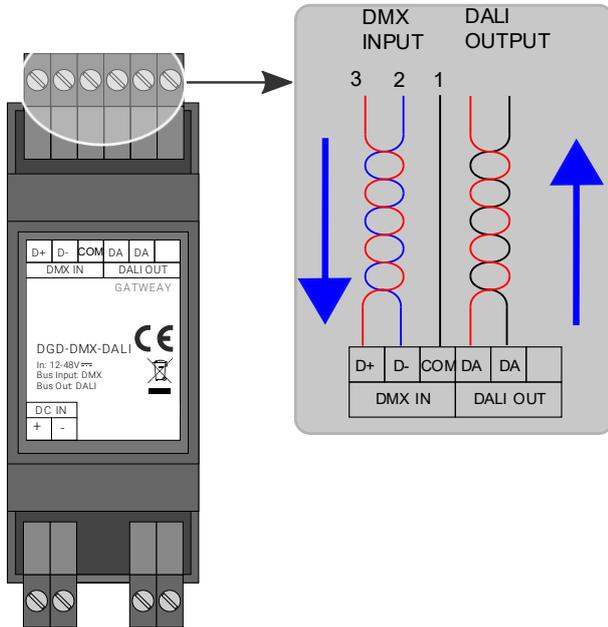


➤ **DIMENSION**



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➤ **DGD-DMX-DALI SETUP – CONVERSION FROM DMX PROTOCOL TO DALI PROTOCOL**



**Signal LED:**

- In the case of bus error, the led blinks fast (2 pulsed per second).
- In the case of no bus detected, led blinks slow (1 pulse per second).
- In the case of data link active, the led stands on.

**Conversion**

- The DGD-DMX-DALI convert only the first 64 DMX Channels in 64 DALI addresses.
- The DGD-DMX-DALI converter from DMX protocol to DALI protocol and not viceversa.
- The DMX channels from 1 to 64 is fixed and it is sent to DALI addresses from 0 to 63 by DIRECT ARC POWER command.

**NOTE:** The DGD-DMX-DALI requires power supply in the DALI bus. The devices DALI must be addressed through DALI programmer (for example with cod. DGM01-1248).

**Conversion Table from DMX Channels to DALI Addresses**

Channel DMX	Addr DALI										
1	⇒ +0	12	⇒ +11	23	⇒ +22	34	⇒ +33	45	⇒ +44	56	⇒ +55
2	⇒ +1	13	⇒ +12	24	⇒ +23	35	⇒ +34	46	⇒ +45	57	⇒ +56
3	⇒ +2	14	⇒ +13	25	⇒ +24	36	⇒ +35	47	⇒ +46	58	⇒ +57
4	⇒ +3	15	⇒ +14	26	⇒ +25	37	⇒ +36	48	⇒ +47	59	⇒ +58
5	⇒ +4	16	⇒ +15	27	⇒ +26	38	⇒ +37	49	⇒ +48	60	⇒ +59
6	⇒ +5	17	⇒ +16	28	⇒ +27	39	⇒ +38	50	⇒ +49	61	⇒ +60
7	⇒ +6	18	⇒ +17	29	⇒ +28	40	⇒ +39	51	⇒ +50	62	⇒ +61
8	⇒ +7	19	⇒ +18	30	⇒ +29	41	⇒ +40	52	⇒ +51	63	⇒ +62
9	⇒ +8	20	⇒ +19	31	⇒ +30	42	⇒ +41	53	⇒ +52	64	⇒ +63
10	⇒ +9	21	⇒ +20	32	⇒ +31	43	⇒ +42	54	⇒ +53		
11	⇒ +10	22	⇒ +21	33	⇒ +32	44	⇒ +43	55	⇒ +54		