Converter DALI to DMX (A69891)

Product description

- Converter+bus
- DC Input: 12-24-48 Vdc
- BUS Command: DMX o DALI
- Converter from DALI protocol to DMX 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-DALI-DMX	12-48V DC	1	DALI	DMX	CONVERTER

➢ PROTECTIONS

OVP	Over voltage protection [2]	✔
UVP	Under voltage protection [2]	✔
RVP	Reverse polarity protection [2]	✔
IFP	Input fuse protection [2]	✔

➢ REFERENCE STANDARDS

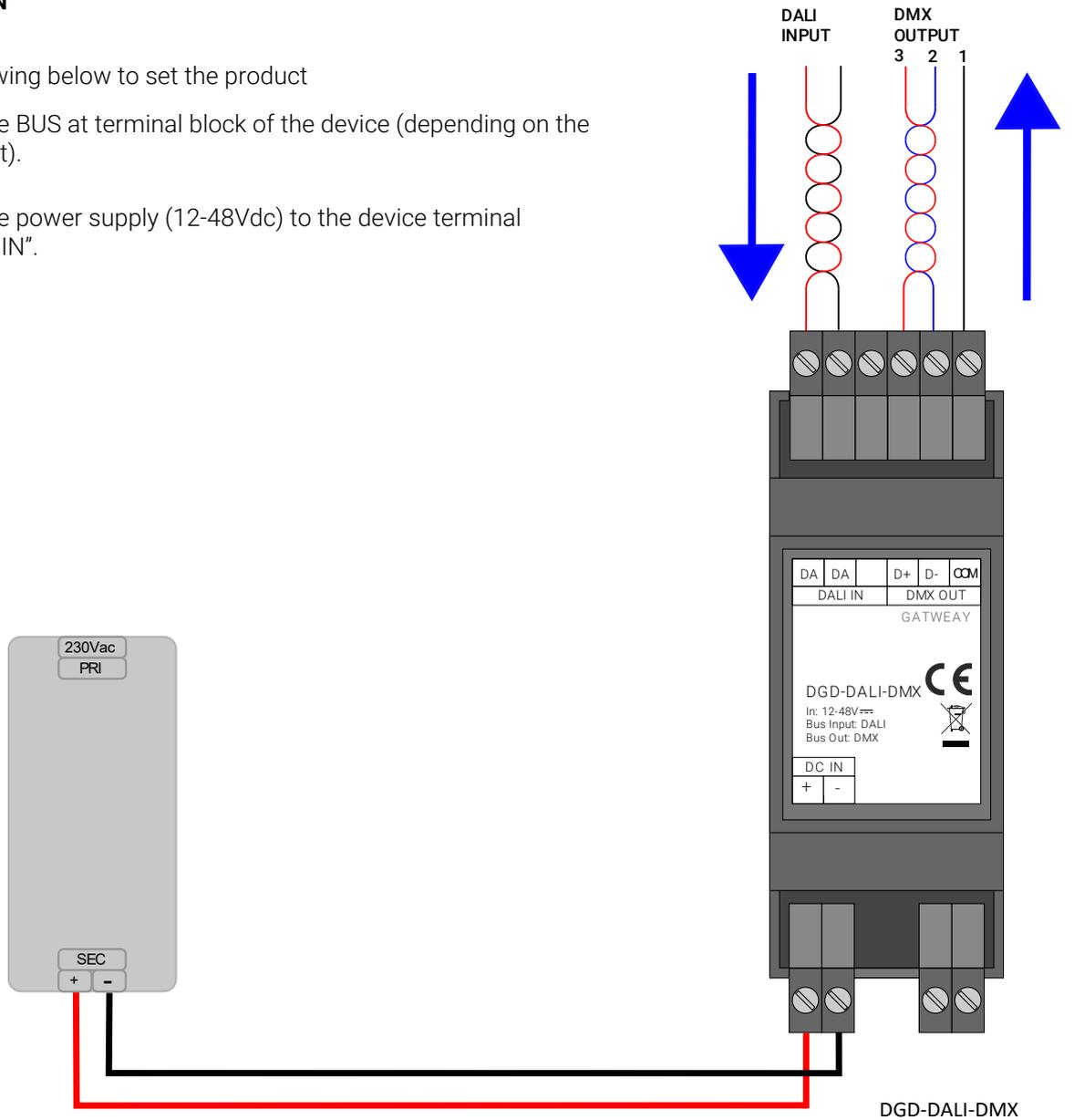| EN 61347-1	Lamp controlgear – Part 1: General and safety requirements
EN 55015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
EN 61547	Equipment for general lighting purpose – EMC immunity requirements

➢ TECHNICAL SPECIFICATION

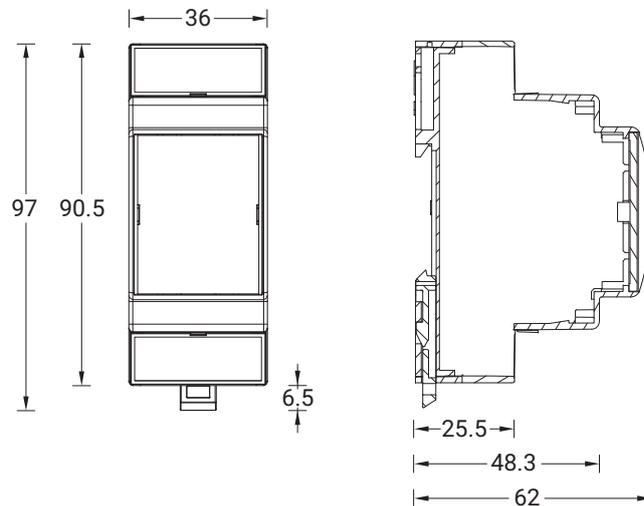|		Constant Voltage	
Supply Voltage		min: 10,8 Vdc .. max: 52,8 Vdc	
Nominal Power[3]		DALI-DMX Variant	
		Min	Max
	@12V	100 mW	184 mW
	@24V	156 mW	248 mW
	@48V	279 mW	380 mW
Power loss in stand by mode		<500mW	
Storage Temperature		min: -40 max: +60 °C	
Ambient Temperature[3]		min: -10 max: +40 °C	
Protection grade		IP10	
Wiring		2.5mm² solid – 2.5mm² 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".

DALI INPUT

DMX OUTPUT
3 2 1

DA	DA		D+	D-	COM
DALI IN			DMX OUT		

GATWEAY

DGD-DALI-DMX CE

In: 12-48V ===
Bus Input: DALI
Bus Out: DMX

DC IN	
+	-

230Vac
PRI

SEC
+ –

DGD-DALI-DMX

➢ DIMENSION

36

97   90.5
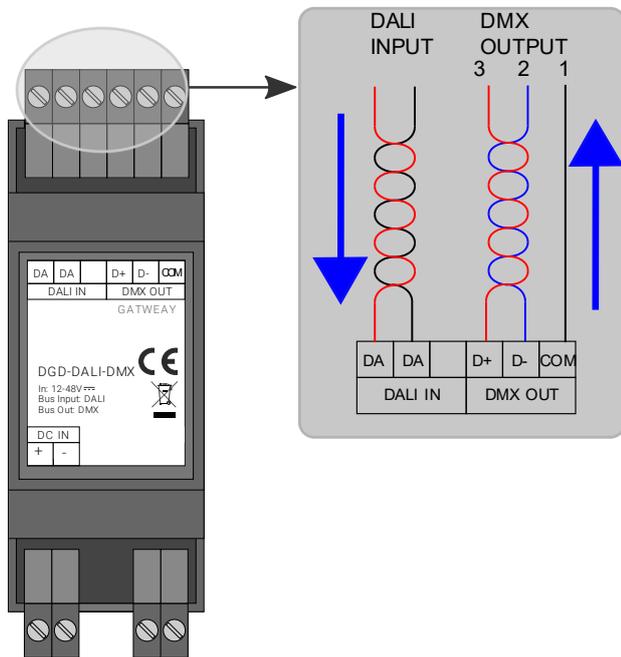
6.5

25.5

48.3

62

10:01, 22-10-2025

https://www.ligman.com

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

Signal LED:

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

Conversion

The DGD-DALI-DMX convert all 64 DALI addresses in 64 DMX Channels.
The DGD-DALI-DMX convert from DALI protocol to DMX protocol and not viceversa.
The device does not manage the addressing of DALI bus. The addresses DALI from 0 to 63 is fixed and it is sent to DMX channel from 1 to 64. The commands implemented are: OFF, UP, DOWN, STEP UP, STEP DOWN, DIRECT ARC POWER, CALL MIN LEVEL, CALL MAX LEVEL, GOTO LAST ACTIVE LEVEL. The values of the commands are not stored in the absence of the supply voltage.

Conversion Table from DALI Addresses to DMX Channels:

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