

#### EASY-BUS **Device Manual**





#### **FEATURES**

- BUS+FADER+DIMMER+DRIVER
- DC Input: 12-24-48 Vdc
- Remote command options:
  - DMX512+RDM DALI
- Local command options:
  - Normally Open push-button
- · Adjusting the brightness of white light
- . Current outputs or voltage outputs for R-L-C loads
- Typical efficiency > 95%
- Adjusting the brightness up to completed off
- Soft start and soft stop
- · Optimized output curve
- Extended temperature range
- 100% Functional test 5 Years warranty
- → For the whole and update Device Manual refer to producer's website: http://www.dalcnet.com

#### CONSTANT CURRENT VARIANTS

Application: Dimmer

CODE	Input voltage	Output	Channels	Commands
DLB1248-1CC350-DMX	12-48V DC	1 x 350mA	1	DMX - 1 N.O. push button
DLB1248-1CC350-DALI	12-48V DC	1 x 350mA	1	DALI – 1 N.O. push button
DLB1248-1CC500-DMX	12-48V DC	1 x 500mA	1	DMX - 1 N.O. push button
DLB1248-1CC500-DALI	12-48V DC	1 x 500mA	1	DALI - 1 N.O. push button
DLB1248-1CC700-DMX	12-48V DC	1 x 700mA	1	DMX - 1 N.O. push button
DLB1248-1CC700-DALI	12-48V DC	1 x 700mA	1	DALI - 1 N.O. push button
DLB1248-1CC950-DMX	12-48V DC	1 x 950mA	1	DMX - 1 N.O. push button
DLB1248-1CC950-DALI	12-48V DC	1 x 950mA	1	DALI - 1 N.O. push button

#### CONSTANT VOLTAGE VARIANTS

Application: Dimmer

_						
Ι	CODE	Input voltage	Output	Channels	Commands	
Ι	DLB1248-1CV-DMX	12-48V DC	1 x 6,5A max	1	DMX – 1 N.O. push button	
Ι	DLB1248-1CV-DALI	12-48V DC	1 x 6,5A max	1	DALI - 1 N.O. push button	

#### > PROTECTIONS

		cc	cv
OTP	Over temperature protections <sup>1</sup>	V	V
OVP	Over voltage protections <sup>2</sup>	✓	✓
UVP	Under voltage protection <sup>7</sup>	✓	<b>✓</b>
RVP	Reverse polarity protection <sup>7</sup>	V	✓
IFP	Input fuse protection <sup>7</sup>	V	✓
SCP	Short circuit protection	×	✓
OCP	Open circuit protection	V	×
CLP	Current limit protection	✓	✓

<sup>1</sup> Thermal Protection on the output channel in case of high temperature. The termal intervention is detected by transistor (>150°C) or by constant current LED driver regulation in current variant (>150°C).

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<sup>&</sup>lt;sup>2</sup> Only control logic protection



## **Device Manual**



#### 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 purposes - EMC immunity requirements
EN 50581	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
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
-	MODBUS APPLICATION PROTOCOL SPECIFICATION V1.1b

#### > TECHNICAL SPECIFICATIONS

		Variants					
			Constan	t current		Constant voltage	
		350mA	500mA	700mA	950mA		
Supply voltage			min: 10,8 Vdc max: 52,8 Vdc				
Output voltage		min: Vin/4 max: Vin-0.9V			= Vin		
Input current		max 0,53A	max 0,5A	max 0,7A	max 0,95A	max 6,5A	
Output current		350 mA	500 mA	700 mA	950 mA	6,5A @40°C	
Absorbed nominal power <sup>3</sup>	@12V	4.2 W	6 W	8.4 W	11.4 W	78 W	
	@24V	8.4 W	12 W	16.8 W	22.8 W	156 W	
	@48V	16.8 W	24 W	33.6 W	45.6 W	312 W	
Power loss in standby mode				<500mW	1		
Type of Load		R-L-C					
Thermal shutdown		150 °C					
D-PWM dimming frequency		250Hz					
D-PWM resolution		16 bit					
D-PWM range		0,1-100 %					
Storage temperature		min: -40 max: +60 °C					
Ambient temperature		min: -10 max: +40 °C					
Wring		2.5mm² solid - 1.5mm² stranded - 30/12 AWG					
Wire preparation length		5,5 – 6,5 mm					
Protection grade		IP20					
Casing material		Plastic					
Packaging unit (pieces/unit)		Single Carton Box 1pz					
Mechanical dimensions		45 x 58 x 25 mm					
Package dimensions		56 x 68 x 35 mm					
Weight		40g					

<sup>&</sup>lt;sup>3</sup> Maximum value, dependent on the ventilation conditions

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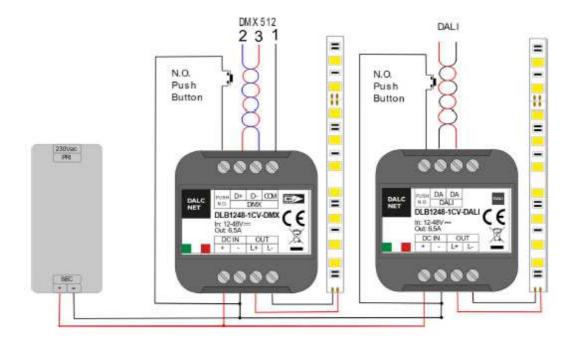
#### EASY-BUS Device Manual



#### > INSTALLATION

As shown below do the following steps to install the product:

- 1) connect the power supply (12-48 V) to the device terminals DC IN
- 2) connect the N.O. Push button and / or the BUS in the correct terminals of the device
- 3) connect the LED output terminals OUT



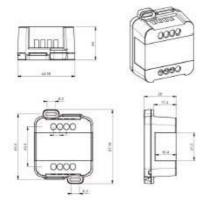
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#### MECHANICAL DIMENSION:



#### TECHNICAL NOTES

#### Installation:

- · Installation and maintenance must be performed only by qualified personnel in compliance with current regulations.
- · The product must be installed inside an electrical panel protected against overvoltages.
- The product must be installed in a vertical or horizontal position with the cover / label upwards or vertically; Other positions are not permitted. It is not permitted to bottom-up position (with the cover / label down).
- Keep separated the circuits at 230V (LV) and the circuits not SELV from circuits to low voltage (SELV) and from any connection with
  this product. It is absolutely forbidden to connect, for any reason whatsoever, directly or indirectly, the 230V mains voltage to the
  bus or to other parts of the circuit.

#### Power supply:

- For the power supply use only a SELV power supplies with limited current, short circuit protection and the power must be
  dimensioned correctly. In case of using power supply with ground terminals, all points of the protective earth (PE = Protection
  Earth) must be connected to a valid and certified protection earth.
- The connection cables between the power source "low voltage" and the product must be dimensioned correctly and they should be isolated from every wiring or parts at voltage not SELV. Use double insulated cables.
- Dimension the power supply for the load connected to the device. If the power supply is oversized compared with the maximum absorbed current, insert a protection against over-current between the power supply and the device.
- For the constant current output, the voltage of LED module (Vf) must be less of 5V at the voltage of power supply.

#### Command

- The length of the connection cables between the local commands (N.O. Push button or other) and the product must be less than 10m; the cables must be dimensioned correctly and they should be isolated from every wiring or parts at voltage not SELV. Use double insulated shielded and twisted cables.
- The length and type of the connection cables at the BUS (DMX512, Modbus, DALI or other) use cables as per specification of the
  respective protocols and regulations and they should be isolated from every wiring or parts at voltage not SELV. Use double
  insulated shielded and twisted cables.
- All the product and the control signal connect at the bus (DMX512, Modbus, DALI or other) and at the local command (N.O. Push Button or other) must be SELV (the devices connected must be SELV or supply a SELV signal)

#### Outputs:

The length of the connection cables between the product and the LED module must be less than 10m; the cables must be
dimensioned correctly and they should be isolated from every wiring or parts at voltage not SELV. Is preferable to use shielded and
twisted cables.



## DLB1248 single channel EASY-BUS

## **Device Manual**



#### LOCAL COMMAND

#### PUSH DIMMER FEATURE

The intensity and the status change (ON/OFF) are controlled by the N.O. push button

Button	Intensity	
Click	on/off	
Double click	Maximum intensity	
Long pressure (>1s) from OFF	Turn on at 1% (Nightly Time), then the dimmer up/down	
Long pressure (>1s) from ON	Dimmer up/down	



## **Device Manual**



#### > DALI BUS SETUP

In DALI BUS SETUP all the leds are controlled by an external DALI controller



#### **FEATURES**

. BUS DALI

#### REFERENCE STANDARDS

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)

#### RELATIONS WITH LOCAL COMMANDS

At first power-up in case of absence of connection to the BUS, local control is active.

When the BUS is detected, the control passes to the BUS.

In the absence of signal the control passes to local commands in the event of the button pressure.

The control mode is memorized on a non-volatile memory.

#### **ADDRESSING**

Simplified method (One ballast connected at time)	+
Random Address Allocation	4

#### CHANEL MAP

The intensity and the status (ON/OFF) is controlled by a DALI controller.

Address	Function	Value
0	Dimmer	Intensity [0.254]



## $\begin{array}{c} DLB1248 \text{ single channel} \\ {}_{EASY-BUS} \end{array}$

## **Device Manual**



#### COMMANDS

STANDARD COMMANDS	
STANDARD COMMANDS DIRECT ARC POWER	12
	+>
OFF	+
UP	+
DOWN	+-
STEP UP	-
STEP DOWN	1
RECALL MAX LEVEL	1
RECALL MIN LEVEL	1
STEP DOWN AND OFF	1
ON AND STEP UP	1
GOTO SCENE (0 to 15)	1
RESET	1
STORE ACTUAL LEVEL IN THE DTR	1
STORE THE DTR AS MAX LEVEL	1
STORE THE DTR AS MIN LEVEL	1
STORE THE DTR AS SYSTEM FAILURE LEVEL	1
STORE THE DTR AS POWER ON LEVEL	1
STORE THE DTR AS FADE TIME	1
STORE THE DTR AS FADE RATE	1
STORE THE DTR AS SCENE (0 to 15)	1
REMOVE FROM SCENE (0 to 15)	1
ADD TO GROUP (0 to 15)	1
REMOVE FROM GROUP (0 to 15)	1
STORE DTR AS SHORT ADRESS	1
ENABLE WRITE MEMORY	×
ENABLE WRITE WEIWORT	
QUERY STATUS	4
QUERY STATUS	
QUERY STATUS QUERY BALLAST	4
QUERY STATUS  QUERY BALLAST  QUERY LAMP FAILURE	4
QUERY STATUS  QUERY BALLAST  QUERY LAMP FAILURE  QUERY LAMP POWER ON	4
QUERY STATUS  QUERY BALLAST  QUERY LAMP FAILURE  QUERY LAMP POWER ON  QUERY LIMIT ERROR	4
QUERY STATUS QUERY BALLAST QUERY LAMP FAILURE QUERY LAMP POWER ON QUERY LIMIT ERROR QUERY RESET STATE	4
QUERY STATUS QUERY BALLAST QUERY LAMP FAILURE QUERY LAMP POWER ON QUERY LIMIT ERROR QUERY RESET STATE QUERY MISSING SHORT ADDRESS	4
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SPECIAL COMMANDS	1.2
TERMINATE	1
DATA TRANSFERT REGISTER	1
INITIALIZE	1
RANDOMIZE	1
COMPARE	1
WITHDRAW	1
SEARCHADOR H	1
SEARCHADOR M	1
SEARCHADOR L	1
PROGRAM SHORT ADDRESS	1
VERIFY SHORT ADDRESS	1
QUERY SHORT ADDRESS	1
PHYSICAL SELECTION	X
	×
ENABLE DEVICE TYPE	1
DATA TRANSFER REGISTER 1	1
DATA TRANSFER REGISTER 2	1
WRITE MEMORY LOCATION	×
	_
	_
	_
	_
	Т
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<sup>&</sup>lt;sup>4</sup> Lamp failure returns always No.

<sup>&</sup>lt;sup>5</sup> "Query device type" returns DT6 but "Enable device type" is not enable.



## **Device Manual**



#### DEFAULT VALUES

	FACTORY	RESET
ACTUAL LEVEL	254	254
POWER ON LEVEL	254	254
SYSTEM FAILURE LEVEL	254	254
MIN LEVEL	1	1
MAX LEVEL	254	254
FADE RATE	7	7
FADE TIME	0	0
SHORT ADDRESS	FF	(no change)
SEARCH ADDRESS	FF FF FF	FF FF FF
RANDOM ADDRESS	FF FF FF	FF FF FF
GROUP 0-7	0	0
GROUP 8-15	0	0
SCENE 0-15	MASK	MASK
STATUS INFORMATION	1??0????	0?100???
VERSION NUMBER	1	(no change)
PHYSICAL MIN. LEVEL	1	(no change)



#### EASY-BUS Device Manual



#### DMX512+RDM BUS SETUP

With the DMX+RDM BUD in the "slave" condition the outputs are managed by an external DMX controller.



#### <u>FEATURES</u>

BUS DMX512 (NSC+SIP+RDM)



#### REFERENCE STANDARDS

NSI E1.11	Entertainment Technology - USITT DMX512-A - Asynchronous Serial Digital Data Transmission Standard for Controlling Lighting Equipment and Accessories
)	Entertainment Technology-RDM-Remote Device Management over US/TT DMX512
	Networks

#### RELATION WITH LOCAL COMMANDS

At first power-up, in case of absence of connection to the BUS, local control is active.

When the BUS is detected, the control passes to the BUS.

In the absence of signal the control passes to local commands in the event of the button pressure.

The control mode is memorized on a non-volatile memory

#### <u>ADDRESSING</u>

RDM	V

Notice: device addressing have to be carried out by a DMX-RDM programmer.

#### CHANNEL MAPS

The intensity and the status (ON/OFF) is controlled by a DMX controller

0	Channel	Function	Value
	1	Dimmer	Intensity [0.255]





## **Device Manual**

#### RDM COMMANDS

PARAMETRI RICHIESTI		
DISC_UNIQUE_BRANCH	1	
DISC_UN_MUTE	×	
SUPPORTED_PARAMETERS	1	
PARAMETERS_DESCRIPTION	1	
DEVICE_INFO	<b>*</b>	
SOFTWARE_VERSION_LABEL	1	
DMX_START_ADDRESS	<b>*</b>	
IDENTIFY_DEVICE	1	

PARAMETRI SUPPORTATI		
PRODUCT_DETAIL_ID_LIST	×	
DEVICE_MODEL_DESCRIPTION	V	
MANUFACTURER_LABEL	×	
DEVIDE_LABEL	V	
BOOT_SOFTWARE_VERSION_ID	×	
BOOT_SOFTWARE_VERSION_LABEL	¥	
DMX_PERSONALITY	V	
DMX_PERSONALITY_DESCRIPTION	¥	
SLOT_INFO	V	
SLOT_DESCRIPTION	V	
DEFAULT_SLOT_VALUE	×	