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Technical Manual

LC-DMB-02

2 x 300W KNX Universal Dimmer

Light Control



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1 General description

BX-DUNIV is a universal two channel Dimmer from Blumotix.

It is compatible with resistive, inductive, capacitive and LED loads.

Outputs can provide up to 300W at 230VAC or 200W at 110VAC.

This dimmer drives small loads without flickering or noise, down to 5W!

You can set the configuration with ETS:

- to switch on or off
- to increase or decrease the brightness
- to call a scenario

BX-DUNIV is designed to home and building application.

2 Features

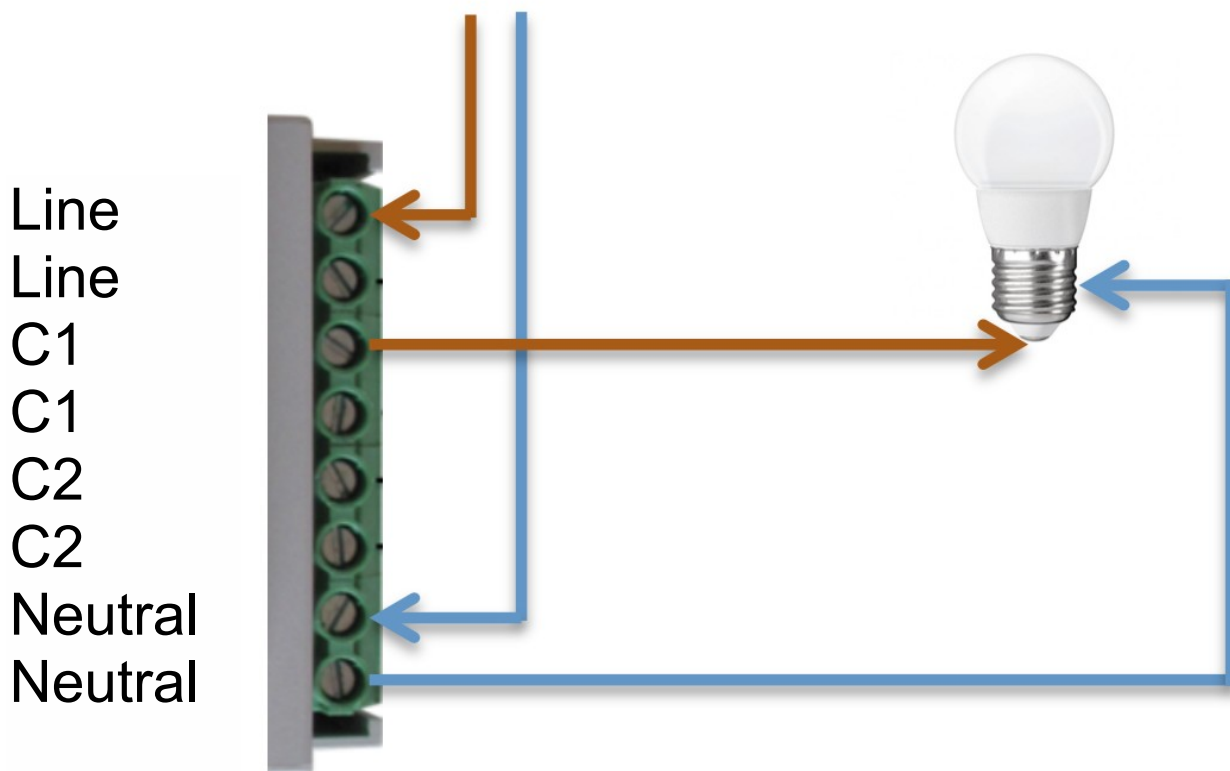
Power supply is provided from KNX bus.

The IP20 casing is pre-set for installation on a DIN 35mm bar (DIN EN 60715).

Its width footprint is equal to 8 18mm modules.

The screw-type terminals are able to accept cable cross-sections up to 5 mm².

The outputs can be manually controlled via the keypad provided on the device front, complete with contact state indicator LEDs.



3 ETS Library

The ETS Library features a number of parameters used to characterise the operation of each dimmer output. The Library opens General panel where you can set utility frequency and enable each channel.

1.1.4 LC-DMB02 - 2 channels universal dimmer > General	
General	Mains frequency <input checked="" type="radio"/> 50 Hz <input type="radio"/> 60 Hz
+ Dimmer 1	Dimmer 1 <input type="radio"/> Disable <input checked="" type="radio"/> Enable
+ Dimmer 2	Dimmer 2 <input type="radio"/> Disable <input checked="" type="radio"/> Enable

Utility frequency is the nominal frequency of the

oscillations of alternating current (AC) in your electric power grid. Standard frequency is 50Hz in Europe.

Others parameters are conveniently divided into two pages dedicated to each channel configuration.

3.1 Dimmer - General

Dimmer - General is the main panel where to set basic configuration.

1.1.4 LC-DMB02 - 2 channels universal dimmer > Dimmer 1 > General

General	Dimming value at command ON	<input checked="" type="radio"/> Previous value <input type="radio"/> 100%
Dimmer 1		
General	Minimum cut OFF value (%)	0
	Maximum cut OFF value (%)	100
Scene		
Lock function	Dimming time for 1 bit GO (dpt 1.001) command ON (sec)	3
Stairs light	Dimming time for 1 bit GO (dpt 1.001) command OFF (sec)	5
Dimmer 2		
General	Dimming time for 1 byte GO and scene (dpt 5.001, 18.001) command (sec)	7
	Dimming time for 4 bit GO (dpt 3.007) command (sec)	10
	Stairs light function	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
	Scene function	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
	General commands	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
	Percent command and status GOs	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
	Lock function	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
	Reset behavior	<input checked="" type="radio"/> OFF <input type="radio"/> Last value

Dimming value at command ON

To set brightness value after a ON command.

Previous value means that brightness will maintain the value before switch off.

100% means that brightness will be maximal.

Minimum and maximum cut OFF value (%)

Minimum and maximum permits to limit the brightness range.

After to set new cut off values the range will be normalized between 0% and 100%.

Minimum cut off will be new 0% and maximum cut off will be new 100%.

Timing configuration

LC-DMB02 permits to set each dimming time.
Dimming time is the interval to drive to a new brightness value.

ON command (sec): set time to switch ON.
We suggest a short time to have a quick lighting.

OFF command (sec): set time to switch OFF.
We suggest a mid value to have time to leave the room.

Set % (sec): set time to drive a new brightness value.

Increase and decrease (sec): set how long is time interval for a dimming action with 4bit command.

We suggest a long time when you are working with a full range dimming action (100%), otherwise it must be zero when you are working step by step.

Stairs light function

This selection permits to enable Stairs light function.

Stairs light delay (sec)	<input type="text" value="0"/>
Restart stairs light	<input checked="" type="radio"/> Disable <input type="radio"/> Enable

Stairs light delay is the time after that light goes out
Restart stairs light is a flag to enable timer restart after a new command.

Scene

Scene number 1	<input type="text" value="1"/>
Scene value 1 (%)	<input type="text" value="10"/>
Store scene value 1	<input checked="" type="radio"/> Disable <input type="radio"/> Enable

Here, you can enable up to 8 scenario.
Scene number 1...8 is a field to set the numerical ID for each scene.
Valore scenario 1...8 (%) is a field to set brightness value that scene recalls.
Store scene value permits to enable save procedure from a KNX command.

General commands

This flag permits to link the dimming action of each channel with general commands.

To enable both channel permits to drive outputs simultaneously.

That option is mandatory when you connect outputs in parallel mode to have double power (600W).

Following the list of general communication objects.

18	All dimmers	Set ON-OFF	1 bit	C R W - -	switch	Low
19	All dimmers	Set ON stairs light	1 bit	C R W - -	switch	Low
20	All dimmers	Dimming	4 bit	C R W - -	dimming c...Low	
21	All dimmers	Set absolutely %	1 byte	C R W - -	percentag... Low	

Percentage command and status GO

Enable and disable communication objects to set brightness with 1 byte command.

4	Dimmer 1	Set absolutely %	1 byte	C R W - -	percentag... Low	
5	Dimmer 2	Set absolutely %	1 byte	C R W - -	percentag... Low	

Lock function

10	Dimmer 1	Stat dim value %	1 byte	C R - T -	percentag... Low	
11	Dimmer 2	Stat dim value %	1 byte	C R - T -	percentag... Low	

This flag permits

Lock message type

0 = lock; 1 = unlock 1 = lock; 0 = unlock

Lock mode

No change

Unlock mode

Light value


Light value (%)

80

to enable communication object to lock the device.

Lock message type defines which boolean value is able to activate the lock.

Lock mode e Unlock mode can define device status after a lock or unlock command.

OFF
 No change 
 Light value

OFF goes the device out,

No change leaves device unchanged,

Light value drives a pre set brightness value.

Reset behaviour

It defines device status after a blackout.
OFF leaves device OFF.

Comportamento al reset

OFF Ultimo valore

Last value drives the last brightness value.