



## Lime Knx LED Dimmer & RGBW



### DESCRIPTION

A pulse-width modulated dimmer for LED strips, LED spotlights and LED lights for constant input voltage 1224- VDC

### DIM4F5A-B

Each channel has a button for manual operating and LED for the Dimming status

PRODUCTION IN GERMANY, CERTIFIED ACCORDING TO ISO 9001

Connection diagram, REG variant



### TECHNICAL DATA:

- 4 Channels, each 5 A, pulse-width modulated
- Variable voltage in- and output 12 to 24 V
- Integrated bistable 230 VAC relay 16 A, Inrush 165A@20ms, 800A@200µs
- Integrated protection functions for: overload, short circuit,
- Under voltage, over temperature, reverse voltage protection Commissioning test functions
- RGB or HSV, four different dimming characteristic for optimized adaption to LED module and smooth dimming over the complete color space
- Automatic relay switching (on/off) with two parameterizable blocking times
- Dimmer and sequencer, scenes and bit-scenes
- 16 predefined sequences and 5 freely configurable sequences
- Channels can be freely configured to:
  - 4x separate channels
  - 2x warm/cold white channels
  - 1x warm/cold white channel, 2x separate channels
  - 1x RGBW channel
  - 1x RGB channel, 1x separate channel
- KNX Objects of protection functions
- PWM 488 or 600 Hz
- Ceiling mount version (DK) - Lighting and furniture label (DIN 57710 Teil 14)
- REG version - Easy DIN rail mounting (4 units)



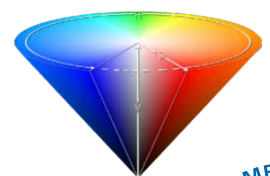
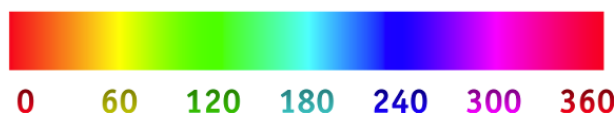
### CONFIGURATION

Programming the device is provided via the ETS Software and the corresponding product data base.

The actual version is available at:

[www.lime-smart.com](http://www.lime-smart.com)  
in the service area

### COLOR SEQUENCES



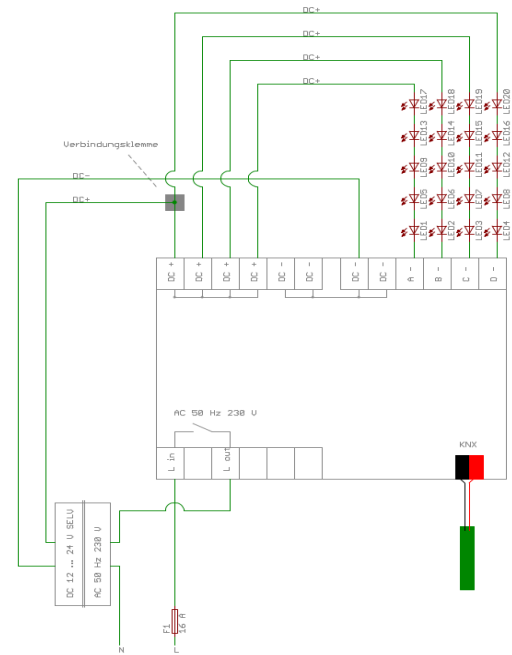
## WARNINGS

The device must only be installed and configured by a qualified professional.

If the 230V outputs are connected to different phases, which are not protected by the same protector unit, a clearly safety note has to be attached to the device!

Health and safety regulations have to be complied with!

A faulty device must be returned immediately to Lime international.



## TECHNICAL DATA:

Nominal voltage:	AC 230V ~
Frequency:	50 Hz
Current Rating:	16 A (C-load)
Power loss:	Max. 6 W
<b>CONNECTION</b>	
Termination:	screw
solid:	2.5 ... 4 mm <sup>2</sup>
finely stranded without end sleeve:	4 mm <sup>2</sup>
finely stranded with end sleeve:	2.5 mm <sup>2</sup>
Rated voltage KNX:	DC 21 ... 32 V SELV
Current consumption KNX:	Max. 18.9 mA
<b>LED</b>	
Connection:	terminal
Connection:	DC 12 ... 24 V SELV <20 A from operating device according to DIN EN 6134713-2- for LED modules with constant output voltage
Current consumption:	20 mA

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## OUTPUTS

Number:	4
Max. Current per output:	5 A
<b>For LED modules with constant input voltage according to DIN EN 62031. LED modules with common anode.</b>	
PWM frequency:	488 / 600 Hz
Cable length:	depending on the line resistance (voltage drop)

## CONNECTION

Termination:	screw
solid:	4 mm <sup>2</sup>
finely stranded without end sleeve:	4 mm <sup>2</sup>
Mounting width:	72 mm (4 HP)
Ambient temperature	-5 ... +45 ° C
Storage / transport temperature:	-25 ... + 70 ° C

## KNX

This device complies with the KNX guidelines. Detailed knowledge of KNX and KNX training are a pre-condition for understanding and proper installation. Planning, installation and commissioning of the device are done with the KNX-certified software.

## Support

The standard support is provided by the e-mail address: [Support@lime-smart.com](mailto:Support@lime-smart.com)