ONLY SMART HOME

Automation System

D-RGB User Manual

History

Version	Date	Changes
1.0	2017-03-07	
2.0	2018-11-15	Branding actualization

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General description

The D-RGB module allows the control of RGB LED strips and requires an external power supply to provide the necessary current to the LED strip.
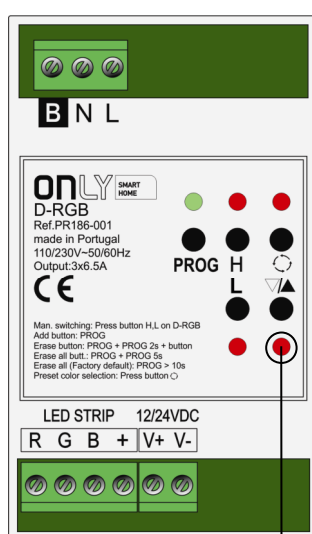The mixing of the colours is obtained through 3 PWM outputs, one for each colour.
The LED strips can be powered at 12 or 24V DC, with a maximum of 3.6A per colour output.
The D-RGB is a controller that implements the HSL colour model (H = Hue, S = Saturation, L = Brightness). The controller allows the adjustment of the H and L parameters, with the colour saturation fixed to 100%.
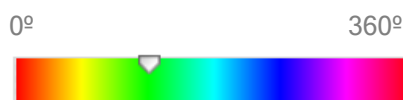
Operation

— L4

Keys	Function
H	Hue
L	Lightness
⟳	Colour preset selection
▽/▲	Selection of the adjustment direction
PROG	Programming

H (Hue)

H is used to change the colour from 0º to 360º sweeping all colors within the visible spectrum.

By pressing the H key, the sweeping starts from the current colour and is incremented automatically in steps of 0.25°.
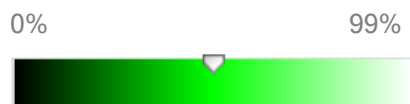The sweeping is continuous, it does not stop when the starting colour is reached.
To stop the sweeping and select the desired new colour, press the H key again.

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L (Lightness)

L allows changing the lightness from 0% (equivalent to totally off) up to 100% (equivalent to white).
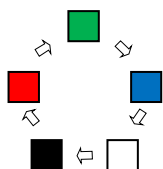When L equals 50%, the selected colour is at its maximum.

0%   99%

Lightness sweeping is performed automatically stopping at 100% in steps of 1%. After starting the sweeping, the new lightness value is selected by pressing the L key again.

Colour preset selection

This key allows the quick selection of some pre-defined colours.
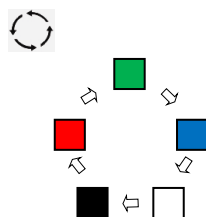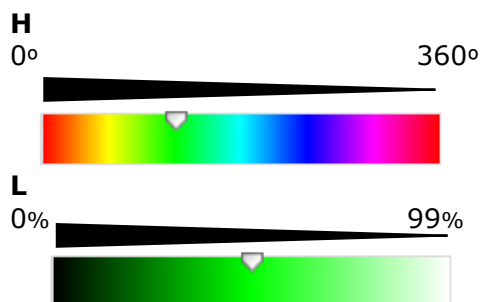

Selection of the adjustment direction

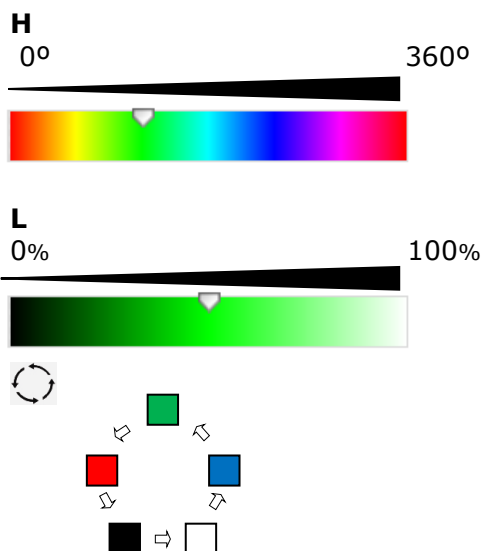This key allows changing the direction of the adjustment of the 3 available functions.

Direction ▲
This mode is signalized by the red led L4 on.

H
0º   360º

L
0%   99%

Direction ▽

This mode is signalized by the red led L4 off.

H

0º   360º

0%   100%

L

Programming

Assigning buttons for lightness control.

• Press shortly the PROG button. The L function is selected.
• Touch the button of an ONLY TOUCH panel or press a button on an ONLY CLICK panel.
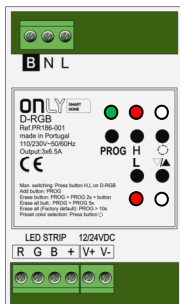• The button is assigned and ready to control the lightness.

Assigning buttons for hue control

• Press shortly twice the PROG button. The H function is selected.
• Touch the button of an ONLY TOUCH panel or press a button on an ONLY CLICK panel.
• The button is assigned and ready to control the hue.

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Assigning buttons for lightness and hue control

• Press shortly three times the PROG key.
The L and H functions are selected.
• Touch the button of an ONLY TOUCH panel or press a button on an ONLY CLICK panel.
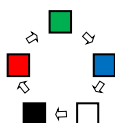• The button is assigned and ready to control hue and lightness.

Note:
This mode is intended to assign a button with the Scenario function set.
If the assigned button is Toggle, On, Off, Timer or Delay, just the lightness will be affected.

Assigning buttons for selection of colour preset.

• Press shortly four times the PROG key.
The function ⟳ is selected.
• Touch the button of an ONLY TOUCH panel or press a button on an ONLY CLICK panel.
• The button is assigned and ready to select the colour preset in this sequence:

Note:
Colour preset selection works in the same way regardless of the function assigned to the control button.

Connections