PURELUX Multi Switch Dashboard Controller User Manual

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PURELUX Multi Switch Dashboard Controller

Product Information:

The multi-switch dashboard controller 4-button is a versatile device that allows you to control up to 8 extra LED lights or electrical devices. It features flash and strobe options for connected additional lights, RGB LED backlighting with automatic brightness adjustment and a 40-amp resettable circuit breaker for added safety.

Product Usage Instructions

Installation of Fuse Box:

There are two ways to install the fuse box:

1. Surface Mounting
2. Flush Mounting

Switch Panel Installation:

1. Recommended mounting surface thickness should be around 3 – 6 mm.
2. Option 2: Adhesive Mounting

Switch Panel Functions:

- Indicator showing active circuit.
- Backlight sensor.

Before installation, connect the product to a 12 V or 24 V DC-power supply and test the complete function of the product.

Package contents

- Control panel
- Fuse box
- Circuit breaker (40A)

- 4-pin cable
- 2-pin cable
- Power cable
- 2 mounting bracket options for the fuse box
- Installation bracket for the control panel
- 50 icon labels to mark the buttons
- Set of screws
- Zip ties

Properties

- Control up to eight auxiliary lights or other electrical devices
- Momentary and strobe modes for connected devices
- RGB backlighting with automatically adjusting brightness.
- 40-ampere circuit breaker
- ON/OFF switch and mode selection
- Can be used in both 12 and 24-volt systems
- Rated maximum power:
  - 12 V: 480 W
  - 24 V: 960 W

Fuse box installation

Fuse box can be installed by two different methods:

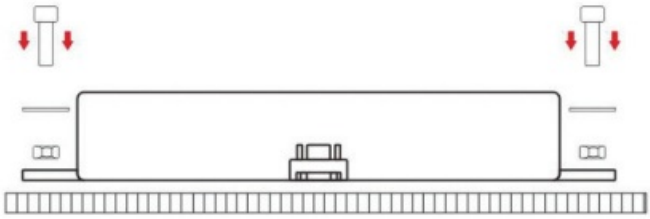
- Surface mounted
- Flush mounted

It is advised to install the system to a position in which all the wiring can be installed neatly and safely.
When drilling any holes during the installation, pay attention to the surface and beyond the surface so any cabling or other components of the subject vehicle are not being damaged.

- Option 1: Surface mount
- Option 2: Flush mount

Measure the installation point by using the mounting bracket and fuse box as guidelines.

1)



2)

Control panel installation

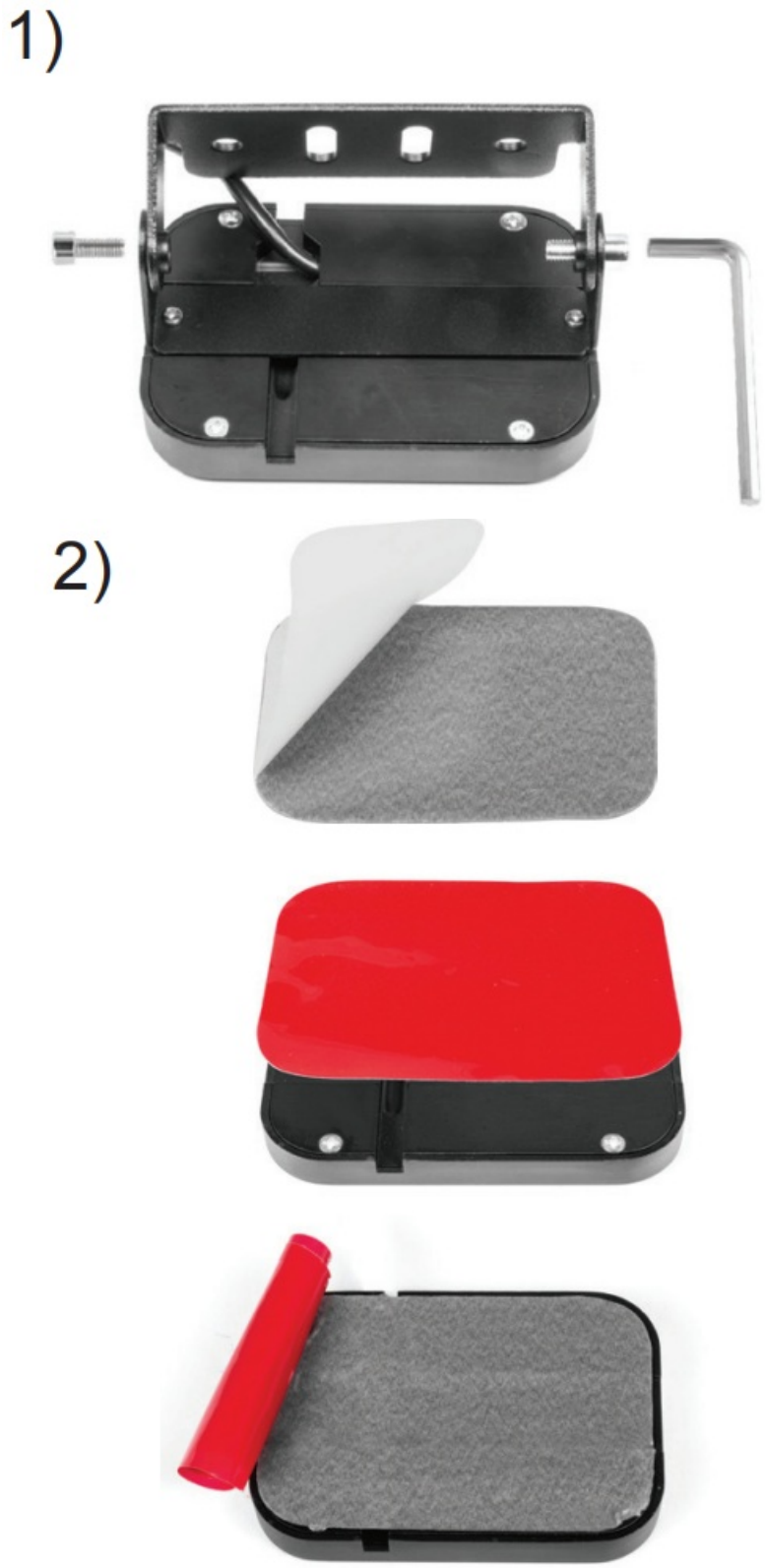
There are two ways to install the control panel: Adjustable mounting bracket and fixed the mounting bracket

Option 1: Adjustable mounting bracket

Advised material thickness for the attachment point should be around 3 to 6 mm. Make sure that the control and power cables are long enough for the desired attachment point. When drilling any holes, extra attention must be paid to not damage any wiring or other components of the subject vehicle. Mark the hole positions by using the bracket as a guiding tool. After the panel has been installed continue to connect the cabling.The installation angle of the control panel can be adjusted with an allen key. There are two different sizes of screws included in the package from which more suitable size option can be selected and the extra set of screws can be saved for spare parts. Both sets of bolts included in the package M3*8 and M3*6 can be used to install the control panel to the bracket. Use either the M5*10 or M5*18 screws to attach the bracket depending on the material thickness of the attachment surface.

Option 2: Adhesive mount

Choose a suitable attachment point for the control panel and clean the attachment point and backside of the control panel from any dust or grease. Pay attention to the length of the control panel wiring when selecting the position. Remove the white protective film and install the sticker on the control panel. After this remove the red protective film and install the control panel to the selected attachment point.

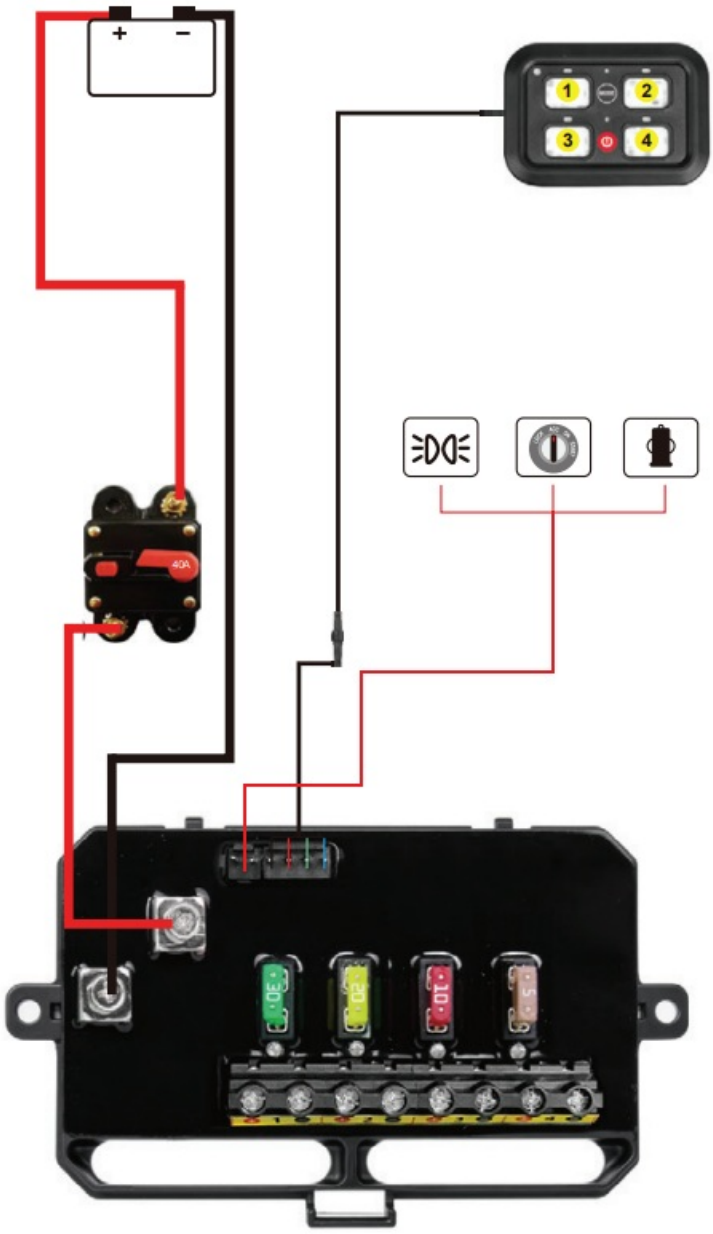


Wiring diagram

- Power: Connect the main power cable (Red) from the vehicle battery or similar power output to the circuit breaker and from the circuit breaker to the marked connection point on the fuse box. Connect the ground

cable’s (Black) other end to the vehicles chassis or other fixed grounding point and the other end to the marked connection point on the fuse box.

- Connecting the control panel: Connect the other end of the 4-pin cable to the control panel and the other end to the marked position on the fuse box.
- Excitation current: The excitation for the fuse box can be connected by many ways depending of the desired working principle. If it is not necessary to operate the connected devices when the vehicle is not running the excitation current can be taken from the ignition switch, parking lights or from a 12V/24V DC outlet. If it is necessary to operate the devices whilst the vehicle is not running the excitation current can be taken straight from the car battery or other constant power supply. Connect the 2-pin cable connector to the fuse box.
- Attention! The red indicator next to the fuse indicates if the fuse blown



Light (or other electrical devices) connection

Connect the desired devices to the power outputs 1-4 on the fuse box. Please note the maximum current for each output and connect the devices to a suitable output..

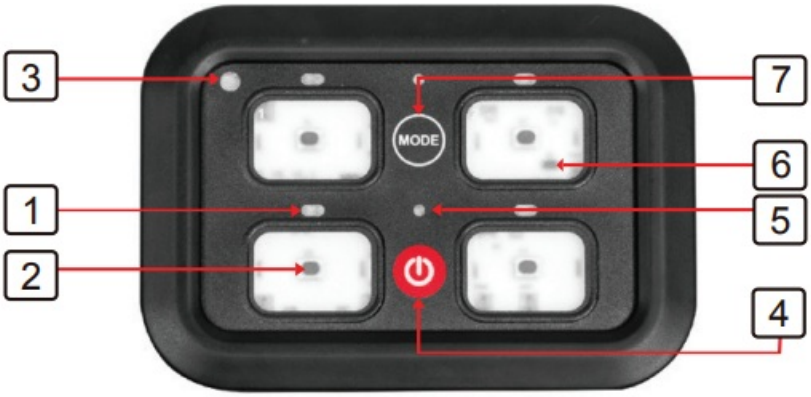
- Output 1: 30A

- Output 2: 20A
- Output 3: 10A
- Output 4: 5A

Attention! It is possible to connect a device on each output but the maximum total current of the outputs cannot exceed 40 amperes. Overcurrent may cause damage on the components of the device.

Control panel description

1. Indicator light to show that the output is active.
2. Position for the selected symbol label..
3. Position of the ambient brightness sensor.
4. Master ON/OFF button.
5. Master ON/OFF indicator.
6. RGB backlight. Default color is green.
7. Mode button.



Backlighting brightness and color adjustment

The brightness of the backlights adjusts automatically depending on the ambient light exposure. Backlight can be turned off momentarily by pressing the “Mode” button. Backlight lights up again if “Mode” or any other button is pressed for the next time. The color of the backlight can be selected from an RGB spectrum. Change the backlight color with the following steps:

- Step 1: Press the “Mode” button and control panel buttons 1 or 4 simultaneously and the “Mode” button indicator turns red.
- Step 2: Press or hold the control panel buttons 1 or 4 and the backlight color changes. If the button is held

pressed the color changes faster.

- Step 3: When the desired color has been chosen, press the “Mode” button and the selection is saved. If the selected color has not been saves in a time period of 20 seconds, the changes are discarded. Attention! If the automatic backlight brightness adjustment is not working as usual after changing the backlight brightness, please turn off the excitation current from the system and turn on again.

Additional features of the control panel

The operating mode of the control panel buttons 1 to 8 can be changed to changed to three different modes: Toggle mode, momentary mode and strobe mode. To change the operating mode follow these steps:

- Step 1: Turn on the control panel.
- Step 2: Double click the “Mode” button and the indicators above thebuttons start to blink.
- Step 3: Press the switch of which operation mode you wish to change.

  Indicator color meanings:
  - Red: Toggle mode
  - Blue: Momentary mode
  - Green: Strobe mode

- Step 4: Test that the mode is working correctly. If the mode did not change, restart the control panel and repeat steps 1 to 3.

Warranty

The product comes with a 12-month warranty covering material and manufacturing defects or for devices that have malfunctioned under normal use. The warranty does not cover damaged products if the user has acted contrary to the instructions or if structural changes have been made to the product.

Importer: Handshake Finland Oy

- www.handshake.fi

FAQ

- **Q: How many LED lights or electrical devices can the controller handle?**
  - A: The controller can handle up to 8 extra LED lights or electrical devices.
- **Q: What is the maximum power output for 12 V and 24 V?**
  - A: The maximum power output is 480 W for 12 V and 960 W for 24 V.

Documents / Resources

	PURELUX Multi Switch Dashboard Controller [pdf] User Manual Multi Switch Dashboard Controller, Switch Dashboard Controller, Dashboard Controller

References

- Etusivu - Handshake
- User Manual