

# USER MANUAL



**soleux**

Advanced IP controlled  
relays scheduler

**ENGINEERED AND ASSEMBLED IN THE EU**

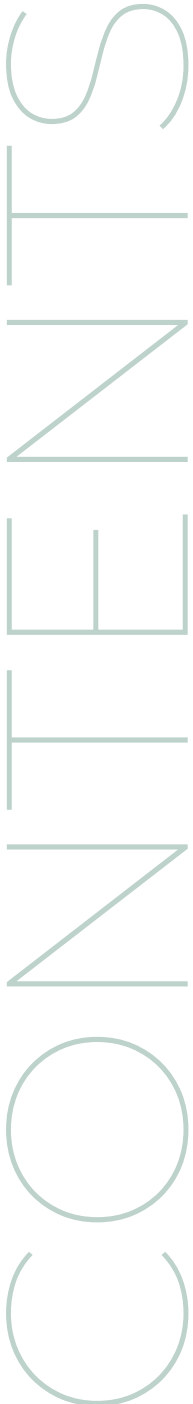
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# ABOUT

- This guide provides a brief introduction of the SOLEUX IP controlled 8-Channel Ethernet Control Module
- All images, parameters and descriptions documented in this guide are used for demonstration only.

With 8 digital inputs and 8 relay outputs and Individual control for each output by TCP/IP raw commands, HTTP or personalized Windows software, the 8-Channel Ethernet Control Module is ideal for any professional AV & IT installation and as well for domestic usage.

It features a flexible On/OFF scheduling for each individual outlet, power tasks can be daily , weekly or user defined.

The Web interface of this smart relay's controller provides easy to navigate step-by-step installation instructions and convenient remote control from anywhere.

- **Indicator light:** An indicator light for each output which shows the user which outlet is active
- **Manual Control:** Enables the control for each output manually
- **Easy Integration:** Easy integration with any third-party control system.
- **Complete set of TCP/IP commands list available.**
- **Temperature Monitoring:** Internal temperature sensor
- **Scheduling:** Build in Real Time Clock which enables to schedule each outlet.

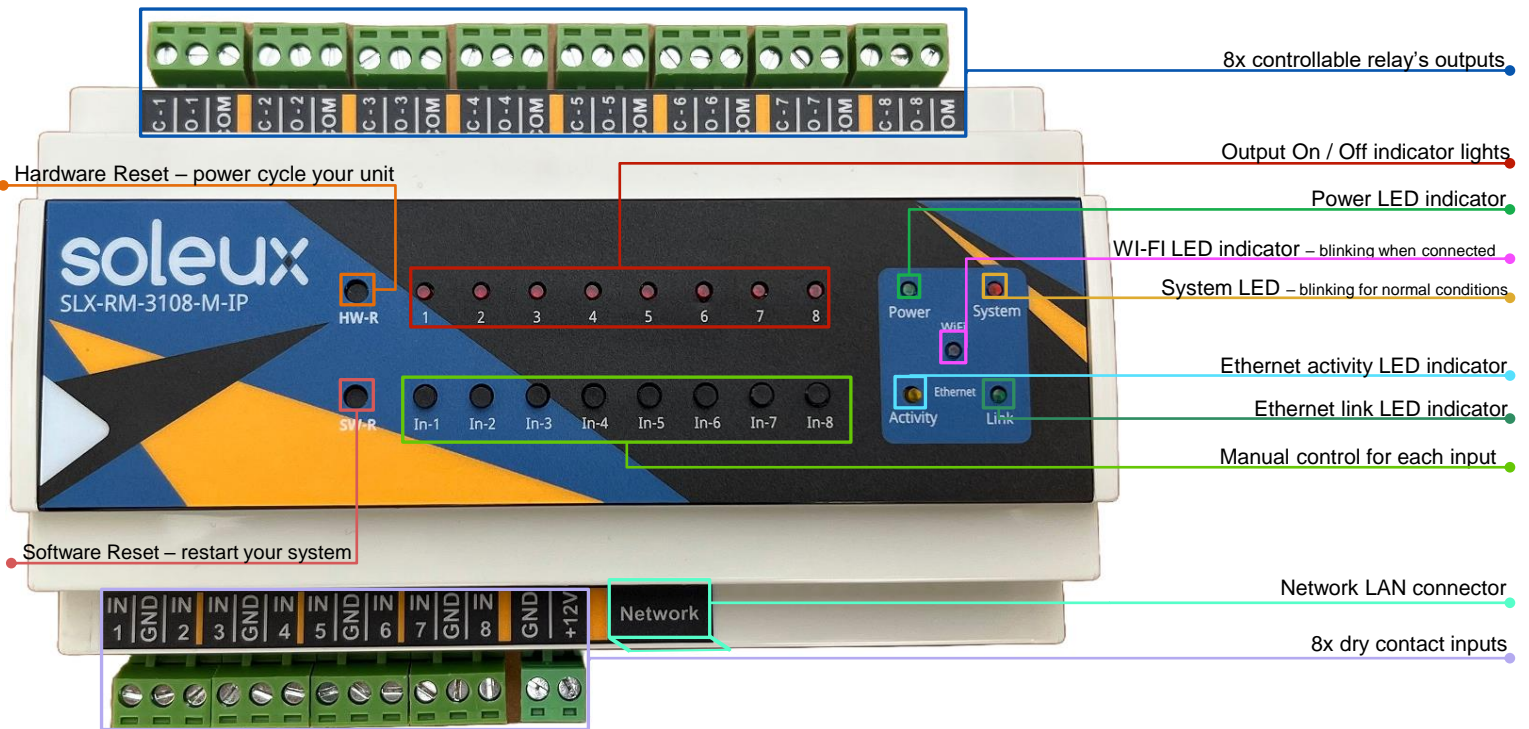




# FEATURES

- Individual control for each output by HTTP or TCP/IP
- On/Off scheduling for each individual output. Power tasks can be defined daily, weekly and user definition.
- Support indicator light notice. There is an indicator light for each outlet which shows the user which outlet is active.
- Manual control for each output, installed on the unit front side.
- Last known state power-on for each output.
- Input Voltage: 20V-24V DC
- Communication: Wi-Fi and LAN
- Wireless Frequency: 5GHz & 2.4GHz
- Wireless IEEE Standards: 802.11 a/b/g/n/ac
- Easy integration with any third-party control system. Complete TCP/IP command list available.
- Internal temperature sensor for temperature monitoring.

# APPEARANCE



# SETTING UP

- **Power Connection:** Connect a power supply (12-24V) to the unit.
- **System LED Indication:** Wait until the "System" LED begins to blink.
- **Ethernet Connection:** Use an Ethernet cable to connect the unit to your network.
- **Network Configuration:** Manually set your network adapter to a custom IP address within the 10.10.10.x range, ensuring to avoid using 10.10.10.10. Open a web browser and enter 10.10.10.10 as the address.
- **Network Settings Configuration:** Adjust the network settings to match your specific network requirements. Access the web interface using the newly configured IP address. If your setup uses DHCP, locate your unit's IP address within your router settings.
- **Initial Configuration:** Utilize this manual to configure your initial setup and give it a try.
- **Technical Support:** Don't hesitate to contact our support team if you encounter any issues. Our staff is eager to assist you.

# CE & FCC COMPLIANCE STATEMENT



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the CE & FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential and marine installation.

This equipment can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

# TECHNICAL SUPPORT

SOLEUX TECHNICAL SUPPORT is an integral part of our commitment to provide long term solution. If you need any help, send us an email to [support@soleux.com](mailto:support@soleux.com) and our team is always prepared to support you. For the latest drivers/software, please visit [www.soleux.com](http://www.soleux.com).

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# WARRANTY INFORMATION

THIS PRODUCT IS BACKED BY A 5 YEARS WARRANTY.

In addition, Soleux warrants its products against defects in materials and workmanship for the periods noted, following the initial date of purchase. During this period, the products may be returned for repair, or replacement with equivalent products at our discretion.

The warranty covers only the cost for parts and reparation labor. Soleux does not warrant its products from defects or damages arising from misuse, abuse, alteration or normal wear and tear.

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# LIMITATION OF LIABILITY



In no event shall the liability of Soleux SRL (or their officers, directors, employees or agents) for any damages (whether direct or indirect, special, punitive, incidental, consequential, or otherwise), loss of profits, loss of business, or any pecuniary loss, arising out of or related to the use of the product exceed the actual price paid for the product. Some states do not allow the exclusion or limitation of incidental or consequential damages. If such laws apply, the limitations or exclusions contained in this statement may not apply to you.



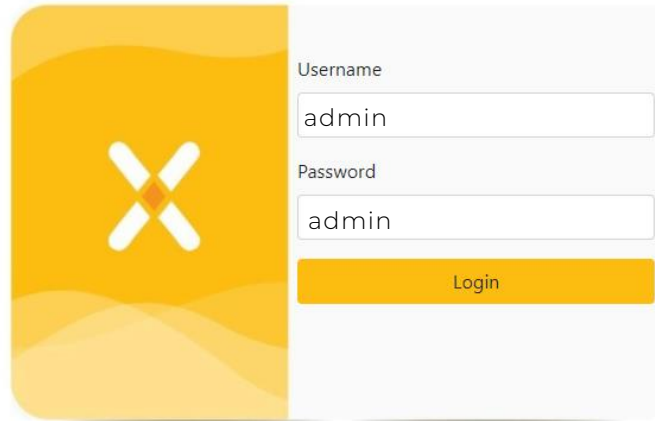
# HIGH PERFORMANCE REMOTE-CONTROLLED RELAY INTERFACE

- CUSTOMIZE POWER CONTROLS FOR EACH OUTLET INDIVIDUALLY.
- SET PRECISE ON/OFF SCHEDULES FOR EACH OUTLET.
- DEFINE DAILY, WEEKLY, AND USER-SPECIFIC POWER TASKS.
- SEAMLESSLY INTEGRATE WITH ANY THIRD-PARTY CONTROL SYSTEM.
- ACCESS A COMPREHENSIVE LIST OF NETWORK COMMANDS COMPATIBLE WITH ALL MAJOR SYSTEMS.

# MODULE CONFIGURATION

Login

soleux



Username  
admin

Password  
admin

Login

Dashboard

soleux

Customizable unit name

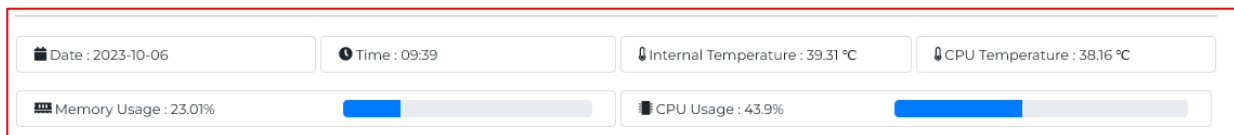
Custom\_Unit\_Name

SLX-RM-3108-M-IP

Navigation menu

Dashboard I/O Configuration Schedule Settings System Logout

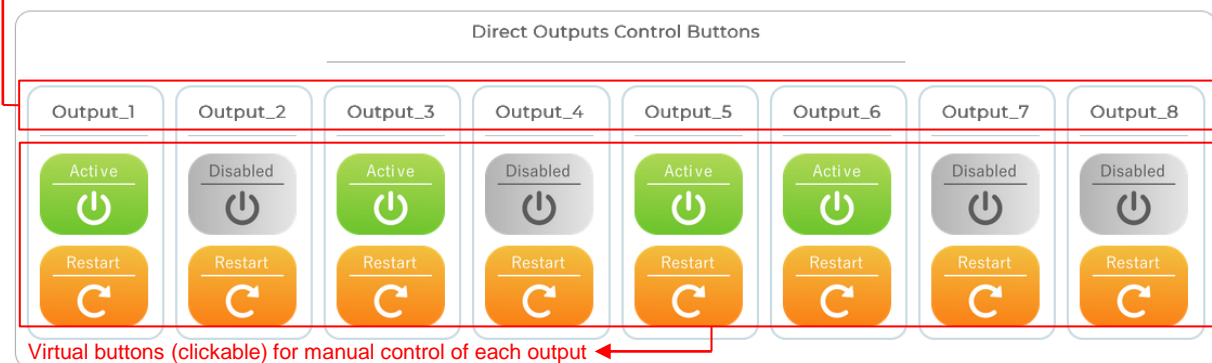
Dashboard



Date : 2023-10-06 Time : 09:39 Internal Temperature : 39.31 °C CPU Temperature : 38.16 °C

Memory Usage : 23.01% CPU Usage : 43.9%

Outputs names – customizable in “Settings”

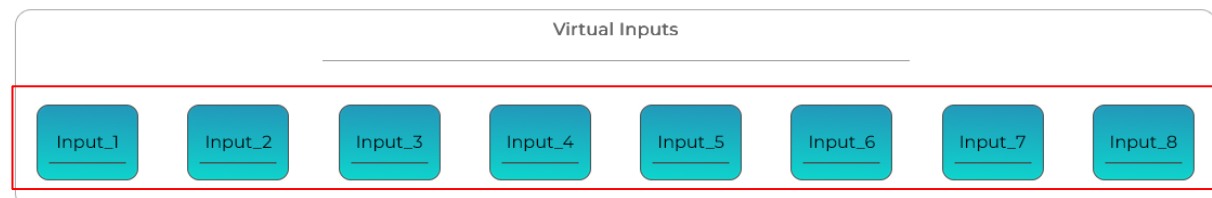


Direct Outputs Control Buttons

Output_1	Output_2	Output_3	Output_4	Output_5	Output_6	Output_7	Output_8
Active	Disabled	Active	Disabled	Active	Active	Disabled	Disabled
Restart	Restart	Restart	Restart	Restart	Restart	Restart	Restart

Virtual buttons (clickable) for manual control of each output

Virtual Inputs



Input\_1 Input\_2 Input\_3 Input\_4 Input\_5 Input\_6 Input\_7 Input\_8

Virtual buttons (clickable) for manual control of each virtual input

## I/O configuration

I&O Mapping								
In & Out	Output_1	Output_2	Output_3	Output_4	Output_5	Output_6	Output_7	Output_8
Input_1		ON	ON	ON				
Input_2	OFF	OFF	OFF	OFF				
Input_3	Cont. ON	Cont. ON	Cont. ON	Cont. ON				
Input_4				TOGGLE				
Input_5					TOGGLE			
Input_6						TOGGLE		
Input_7	OFF	OFF	OFF	OFF	ON	ON	TOGGLE	Cont. ON
Input_8	ON	ON	ON	ON				TOGGLE

\* click on each cell to switch between input actions and assign I/O

### I/O configuration

- You can configure the actions each input triggers on each output
- The available actions are ON, OFF, TOGGLE, CONTINUOUS ON, CONTINUOUS OFF, and NONE.
- Each action can be edited and modified or disabled independently.
- To edit an action field just click on the corresponding cell and keep clicking until you get to the desired action .

Input Pin Settings		
#	Input name	Enable / Disable
1	<input type="text" value="Input_1"/>	<input checked="" type="checkbox"/>
2	<input type="text" value="Input_2"/>	<input checked="" type="checkbox"/>
3	<input type="text" value="Input_3"/>	<input checked="" type="checkbox"/>
4	<input type="text" value="Input_4"/>	<input checked="" type="checkbox"/>
5	<input type="text" value="Input_5"/>	<input checked="" type="checkbox"/>
6	<input type="text" value="Input_6"/>	<input checked="" type="checkbox"/>
7	<input type="text" value="Input_7"/>	<input checked="" type="checkbox"/>
8	<input type="text" value="Input_8"/>	<input checked="" type="checkbox"/>

Output Pin Settings			
#	Output name	Switch ON delay	Switch OFF delay
1	<input type="text" value="Output_1"/>	100 <input type="text"/>	0 <input type="text"/>
2	<input type="text" value="Output_2"/>	500 <input type="text"/>	0 <input type="text"/>
3	<input type="text" value="Output_3"/>	0 <input type="text"/>	0 <input type="text"/>
4	<input type="text" value="Output_4"/>	0 <input type="text"/>	0 <input type="text"/>
5	<input type="text" value="Output_5"/>	0 <input type="text"/>	0 <input type="text"/>
6	<input type="text" value="Output_6"/>	0 <input type="text"/>	0 <input type="text"/>
7	<input type="text" value="Output_7"/>	0 <input type="text"/>	0 <input type="text"/>
8	<input type="text" value="Output_8"/>	0 <input type="text"/>	0 <input type="text"/>

\*delay time is in 10ms and might have a 1% variation

### Inputs and outputs customization and settings

- You have the option to personalize the label of your digital input or output by simply clicking on its current name.
- The Enable/Disable switch allows you to activate or deactivate individual or multiple inputs.
- For added flexibility, you can configure custom time delays for switching outputs between their ON and OFF states, with increments in multiples of 10ms.

## Schedule

Output's customizable ID

OUTPUT\_1

### ONE-TIME SCHEDULES

DATE / HOUR ACTION

01/04/2025 12:21   

DATE / HOUR ACTION




 

### RECURRING SCHEDULES

HOUR ACTION

18:20 pm  Weekly         

HOUR ACTION

 Weekly        

Output's customizable ID

OUTPUT\_2

### ONE-TIME SCHEDULES






-NO SCHEDULES-

DATE / HOUR ACTION






 

### RECURRING SCHEDULES



HOUR ACTION

00:00 am  Monthly  Day of the month   

HOUR ACTION

12:00 pm  Monthly  Day of the month   

HOUR ACTION

00:00 am  Monthly  Day of the month   

HOUR ACTION

 Weekly        

### One-time schedules:

- Create a one-time schedule action for a specific date and time.
- No limit on the number of scheduled actions.
- Edit, modify, or delete each rule independently.
- Click 'Add new rule' to save the action.

### Recurring schedules:

- Set up recurring schedules for weekly, monthly, or yearly actions. For weekly, choose the time and day(s). For monthly, choose the time and date. For yearly, choose the time, month, and date.
- No limits on scheduled actions. Edit, modify, or delete each rule independently.
- Click 'Add new rule' to save."

### GENERAL SETTINGS

**Unit Name** Change the unit's name

Update unit Name

---

**Username** Change username and password

Change password

Update User Settings

**Timezone** Set the time zone and time

+01:00 Europe/Monaco

Set Timezone

**Current Date/Time**

Set Date Time

Sync With Computer Time

**Backup config file**

Download

\*Press "Download" button to save configuration

---

**Upload config file**

Upload

\* The system will restore the configuration to uploaded backup file.

**Time sync interval (min)**

**NTP server**

Enable

NTP Test

Update NTP Setting

Backup and restore your unit's configuration

### NETWORK SETTINGS

Connected

Current LAN network configuration

IP Address: 10.10.10.10

Subnet mask: 255.255.255.0

Default gateway: 10.10.10.1

Dynamic  Static

IP Address:

Subnet mask:

Default gateway:

Set the network configuration on DHCP or manual

Manual configuration for the LAN connection

Save

### WIFI SETTINGS

Connected to: AVS-ST

Current Wi-Fi network configuration

IP Address: 192.168.1.26

Subnet mask: 255.255.255.0

Default gateway: 192.168.1.1

Dynamic  Static

Click for a list of available Wi-Fi networks

Disconnect Show WiFi Networks

Set the network configuration on DHCP or manual

Save

- Save the configuration when all the modifications are finished.

**WIFI SETTINGS**

Not connected Show WiFi Networks

Save

- Click on the “Show Wi-Fi Networks” button to get the available Wi-Fi networks.

**Wifi Networks**

SSID	Channel	Signal Strength	Secured	Encryption	Actions
0531	6	<div><div style="width: 80%;"></div></div>	Yes	WPA2	<span>Connect</span> <span>Forget</span>
0531_Projects	60	<div><div style="width: 60%;"></div></div>	Yes	WPA2	<span>Connect</span>
WiFi-XP3	60	<div><div style="width: 50%;"></div></div>	Yes	WPA2	<span>Connect</span>
WiFi-XP8	60	<div><div style="width: 50%;"></div></div>	Yes	WPA2	<span>Connect</span>
0531_Guests	6	<div><div style="width: 50%;"></div></div>	Yes	WPA2	<span>Connect</span>
WiFi-URC	6	<div><div style="width: 50%;"></div></div>	Yes	WPA2	<span>Connect</span>
WiFi-XP6	6	<div><div style="width: 50%;"></div></div>	Yes	WPA2	<span>Connect</span>
ASUS	11	<div><div style="width: 50%;"></div></div>	Yes	WPA2	<span>Connect</span>
DIRECT-e9-HP M281 LaserJet	6	<div><div style="width: 50%;"></div></div>	Yes	WPA2	<span>Connect</span>
Livebox-EF81	6	<div><div style="width: 30%;"></div></div>	Yes	WPA1 WPA2	<span>Connect</span>
epeFree	11	<div><div style="width: 30%;"></div></div>	Yes	WPA1 WPA2	<span>Connect</span>

Refresh Close

- Select the network you want to use and click “Connect”.
- Input the correct password and wait until the connection is established.

## Settings

### ALLOW TCP CONTROL FROM

Disable

TCP Port

IP ADDRESS	SELECT
<input type="text" value="10.10.60.57"/>	<input type="checkbox"/> <input type="checkbox"/>
<input type="text" value="10.100.20.55"/>	<input type="checkbox"/> <input type="checkbox"/>
<input type="text" value="10.100.100.111"/>	<input type="checkbox"/> <input type="checkbox"/>

MAC ADDRESS	SELECT
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### TCP control filtering

When the "Disable" checkbox remains unchecked, the unit will exclusively accept SSH and TCP direct commands from devices listed either by their IP address or MAC address. This functionality is particularly advantageous within networks utilizing DHCP.

Conversely, when the "Disable" checkbox is enabled, the unit will accept incoming SSH and direct TCP commands from any device connected to the network.

It is important to note that if you are utilizing the TCP filtering feature, you must include either the IP address or MAC address of the Windows machine running the Windows control application in your whitelist to enable unit control.

In scenarios where the Windows control application machine frequently moves across VLANs or does not possess a dedicated IP address, it is recommended to whitelist its MAC address within this list for optimal performance.

## System

### SYSTEM INFORMATION

Eth MAC Address : 02:81:46:f5:da:33	Wlan MAC Address : 00:e0:32:c0:76:48
Serial # : 02c0008146f5da33	CPU Temp : 38.76 °C (Ref. temp for fan cooler)
Uptime : 5 hours, 33 minutes	

### SYSTEM VERSION

Current version: v1.7 / 05.09.2023

- The "System Information" portion shows details of the network, both ethernet and Wi-Fi MAC addresses, unit's serial number, CPU temperature and unit's uptime information.
- The "System Version" information displays the current OS version and using the "Upload Firmware" and "Online Update" buttons you will be able to update to the latest version using either our OTA mechanism or by uploading the latest firmware file you can download from our site.
- Save the configuration when all the modifications are finished.

**SYSTEM LOGS**

Select time interval for logs

From  To

---

Tags

Filter by tags

Date/Time	Tag	Status	Note
2000-01-04 01:41:29	Channel 1	ON	Manual Web Control
2000-01-04 01:41:27	Channel 2	ON	Manual Web Control
2000-01-04 01:41:08	Channel 2	OFF	Manual Web Control
2000-01-04 01:41:06	Channel 1	OFF	Manual Web Control

### System restart procedure:

- Push and hold the “SW-Reset” button for 5 seconds and the unit system will restart. This operation will have no effect over the outlets.
- System restart can also be done from the webpage -> Settings .

### Factory reset:

- Push and hold the “SW-Reset” button for 15 seconds. The unit will restart and reset to the default factory settings. ( IP address: 10.10.10.10, User: admin, Password: admin ). This operation will have no effect over the outlets.

### Operation and troubleshooting:

- The unit is ready when the “Sys” LED is blinking.
- The output On/Off indicator LED is ON when the outlet is active and OFF when the output is disabled.
- In case of any internal failure, the “Sys” LED will turn completely OFF or will stay fully ON.
- Contact our support team for any problem or question you might have: [support@soleux.com](mailto:support@soleux.com)

**Thank you for choosing our products**