

Bluetooth Mesh

# WaveOn Solutions Home automation Catalogue 2024

It's time  
for smart living

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Our mission is to upgrade customer environments through our devices, establishing a globally recognized brand that meets the unique needs of every market, beginning with our local community. We aim to remedy past disappointments caused by foreign products by providing reliable products and robust support, setting a new standard of trust and assurance.



- Founder and CEO: Housseem Ouali

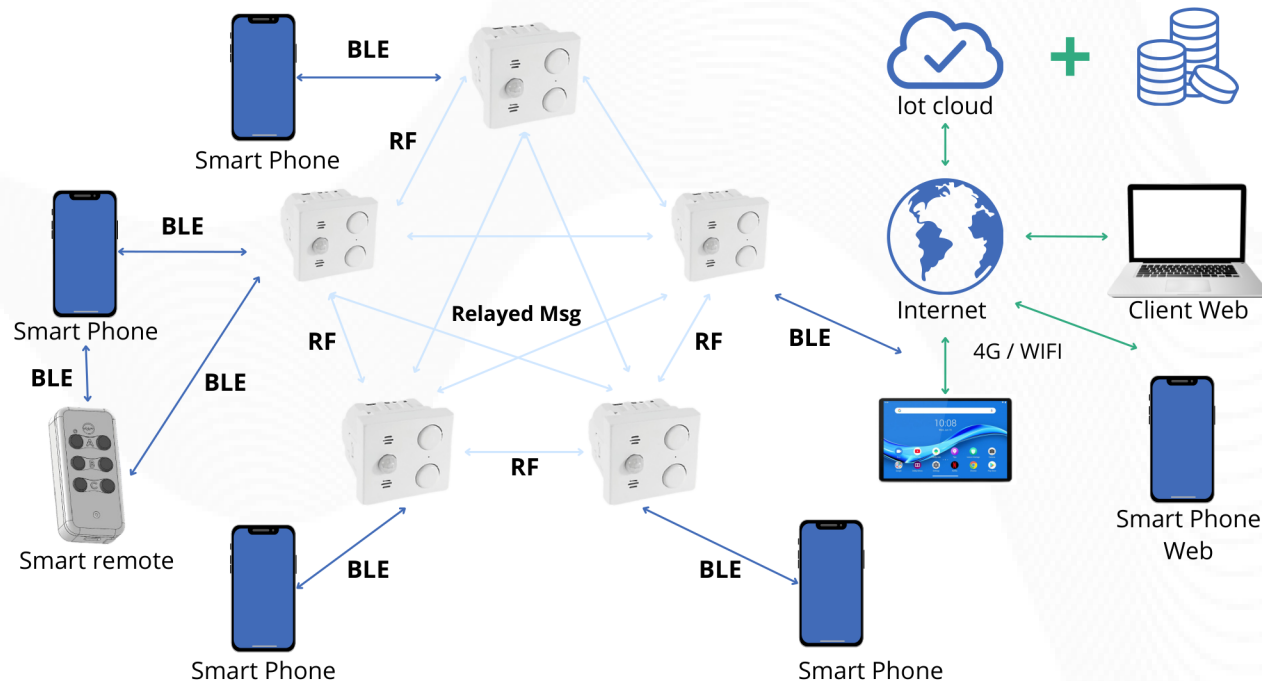


# Introducing WaveOn Wireless Home Automation

**WaveOn** brings you a cutting-edge **Home automation** solution that is designed to meet the demands of **modern lifestyles**. With our technology, **you can** effortlessly **control** and **automate** your devices **using your smartphone**.



## Our core Technology



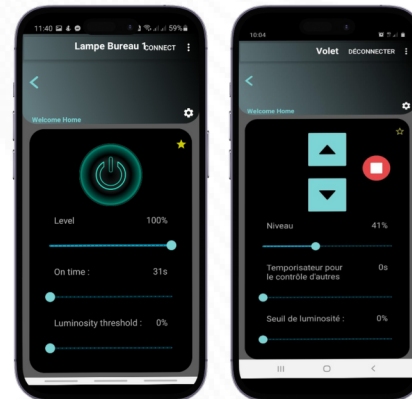
Our smart switches utilize **Wireless BLE mesh** communication, enabling direct connection to your phone. Not only do these switches seamlessly integrate, but each one also operates as a **repeater**, significantly expanding the reach and coverage of your network as you introduce additional switches. What sets our system apart is its robust support for **large-scale** device deployment, accommodating numerous devices within expansive spaces. Moreover, this mesh network is incredibly **scalable**, adjusting effortlessly according to your needs.

For enhanced control over extended distances, our **gateway** option is available. This versatile gateway, adaptable to any Android device like a **tablet** or **smartphone**, establishes internet connectivity, enabling **remote** communication. Serving as the centralized **hub**, it facilitates command execution, automation management, and fortifies home security. The beauty of our system lies in the flexibility it offers, You have the freedom to select the gateway device that precisely fits your requirements, even opting for one with telecommunication capabilities to seamlessly operate via **Wi-Fi** or **4G networks**.

## WaveOn Mobile Application

Experience the **convenience, reliability, and security** of WaveOn Wireless Home Automation. With our system, you can control your **lighting, blinds, temperature,** and more from **anywhere**, creating the perfect environment for your home or building. **Join the future** of home automation with WaveOn and **simplify your life** in a truly **smart way**.

Our **smart switches** offer a unique and versatile experience that sets them apart from others in the market. With WaveOn technology, you can Create physical **centralized** switches to **manually control** a group of lights or shutters according to your desired preferences. But that's not all ,our switches also have advanced capabilities. They can **dynamically turn on** based on your **presence detection**, ensuring that lights are automatically activated when you enter a room. Additionally, our switches can **trigger** other lights to turn on, creating a seamless lighting experience that follows your every movement.



Furthermore, our switches provide the ability to **control RGB lights**, allowing you to personalize and create the perfect ambiance in your space. Experience the unmatched uniqueness of WaveOn smart switches and revolutionize the way you interact with your home's lighting and automation.



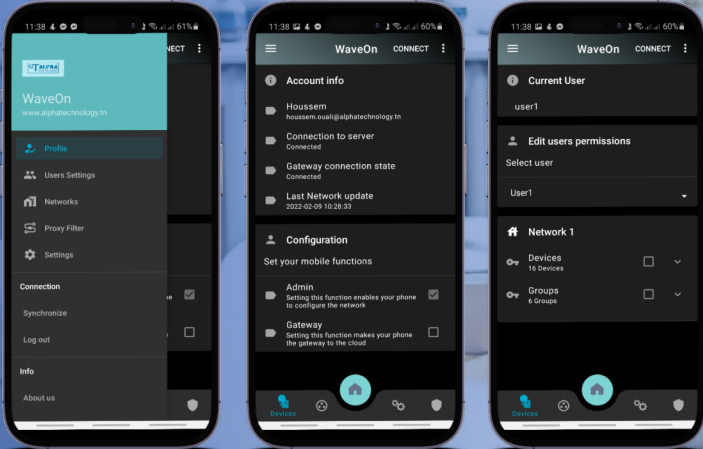




Enjoy **multiuser** support with configurable rights and Permissions, ensuring everyone in your household has personalized access.

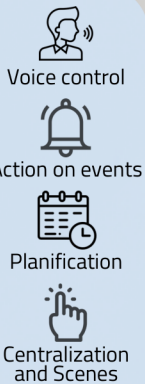
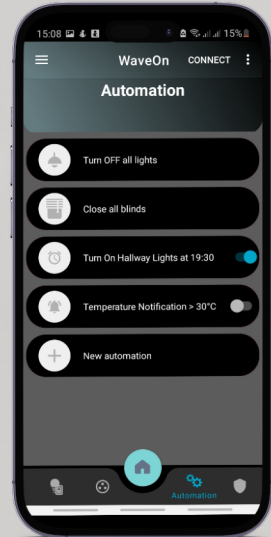


Arrange and personalize your smart devices within the application based on rooms, ensuring easy and intuitive access.

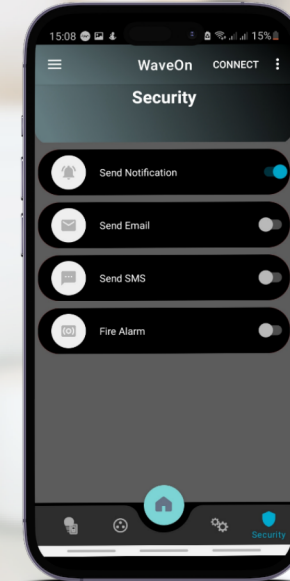




Effortlessly **automate**, **schedule**, and **centralize** control of your smart home devices using our app.



Discover the peace of mind that comes with our **integrated security system**, equipped with various alert options.







Empower Your Comfort by Seamlessly  
Control and Monitoring your home  
**humidity and temperature** Levels



We understand the importance of  
**energy conservation**, which is why  
our switches can be configured to an  
**economic mode**. They are smart  
enough to detect when nobody is  
present and will automatically turn  
off to **save power**, contributing to a  
more sustainable and efficient  
environment.



Monitoring your appliances' real-  
time **power consumption**





# WaveOn Products



BLE 5.0



Easy  
Installation



Occupancy  
detector



Dimmers



Customizable



## WaveOn Products : Dual Switch

A Wall mounted smart Dual-Channel switch for dynamic Lighting

2 Light Channel control (ON/OFF) Up to 10A per Channel

Light Dimmer (Optional on Channel A, Max 200W)

Manual control: 2 Push buttons + Reset Button

Very Low Power Consumption

Motion Detection (Dynamic Lighting, Intrusion detection)

Ambient Temperature /Humidity Sensor

Ambient Light Sensor With configurable threshold

Timer: configurable "Stay On time"

Multiple operational Modes: Economic, Dynamic lighting.

Extra configurable Input/output : (RGB Strip controller ,  
Central Blinds or Light Switch  
Intrusion sensor..)

Isolated power supply : 100-240 VAC ~50/60Hz



BLE 5.0



Easy  
Installation



Presence  
sensor



Dimmer  
switch



Configurable  
timer



Economical  
lighting  
mode



Humidity and  
temperature  
sensor



Light  
sensor



16M colors



Remote  
operation



Control  
group



WaveOn Product : RS Roller Shutter

A Wall mounted smart Roller shutter Switch for remote control of electric blinds with status positioning feedback (percentage of opening/closure).

0 % to 100 % Blinds Level Control.	Ambient Light Sensor With configurable threshold
Compatible with all Electric Blinds Motor < 10A	Timer : configurable “Stay On time”
Manual control : 2 Push buttons	Extra configurable Input/output : (RGB Strip controller , Central Blinds or Light Switch
Very Low Power Consumption	Intrusion sensor..)
Motion Detection (Dynamic Lighting, Intrusion detection)	
Ambient Temperature/Humidity Sensor	Isolated power supply : 100–240 VAC ~50/60Hz



WaveOn Products

WaveOn Product : SR Smart Remote  
Programmable Remote Control with Wireless Mesh compatible with all Smartphones .



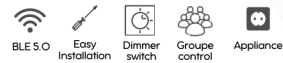
Small and light weighted
3 configurable Channel Control (Lights and Roller shutter)
5V DC USB Rechargeable Battery
Low Power Auto Shutdown
Control Modes : Single (Light or shutter control)
Grouped (Light or shutter Control)
Light level control with long push



WaveOn S50  
An outdoor Smart switch



Dry Contact
OutDoor Lighting Control
Garrage Doors
Timer : configurable ON time
Isolated power supply : 100–240 VAC ~50/60Hz
Max Load : 10A
IP rating : 66



WaveOn RB Range Booster  
Long Range BLE Mesh Network extender to reach uncovered far areas.



Extends the range of your home automation network

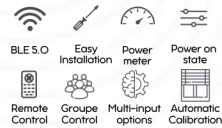
Up to 1000m Message Relay Range
Back-up Battery
Power-Cut Detection
Isolated power supply : 100–240 VAC ~50/60Hz



WaveOn RSM (WaveOn Roller shutter Module)  
Smart Module for remote control of electric blinds with status positioning feedback (percentage of opening/closure).



Smallest size 42mm *39 mm *17 mm, easy to integrate in wall electric boxes
Adaptable for DIN rail mounting.
0 % to 100 % Blinds Level Control.
Compatible with all Electric Blinds Motor < 10A
Wall Mounted Central Remote
Power consumption< 1.4 W
Integrated Power Meter
Voltage : 24 VDC or 100–240 VAC ~50/60Hz





**WaveOn DSM (WaveOn Dual Switch Module)**

smart Miniature Dual-Channel switch for Lighting



Smallest size : 42mm \*39 mm \*17 mm,  
Easy to integrate in wall electric boxes  
Adaptable for DIN rail mounting.  
Power meter per channel (Power consumption)  
2 Light Channel control (ON/OFF) Up to 10A per Channel  
Multiple operational Modes:

- Teleruptor,
- Push-button timer switch
- Wall Mounted Central Remote

Timer: configurable Stay ON time

Power consumption< 1.4 W

Voltage : 24 VDC or 100-240 VAC ~50/60Hz



**WaveOn SSM (WaveOn Smart Switch Module)**

smart Miniature single Channel switch electrical appliances



Smallest size 42mm \*39 mm \*17 mm,  
easy to integrate in wall electric boxes  
Adaptable for DIN rail mounting.  
Power meter (Power consumption)  
Single Channel control (ON/OFF) Up to 20A  
Multiple operational Modes:

- Teleruptor,
- Push-button timer switch
- Wall Mounted Central Remote

Timer: configurable Stay ON time

Power consumption< 1.4 W

Voltage : 24 VDC or 100-240 VAC ~50/60Hz

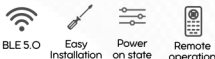


**WaveOn GCM (Gate Controller Module )**

smart Miniature Garrage (sliding / hinged door) Controller With Door State feedBack (Open/ close / partially open)



Smallest size 42mm \*39 mm \*17 mm,  
easy to integrate in wall electric boxes  
Adaptable for DIN rail mounting.  
Dry Contact output up to 10A  
Timer: configurable output pulse time  
Power consumption< 1.4 W  
Voltage : 24 VDC or 100-240 VAC  
~50/60Hz



“Experience the Ease:  
Where Life Flows Smoothly with Our **Smart**  
Living **Solutions!**”

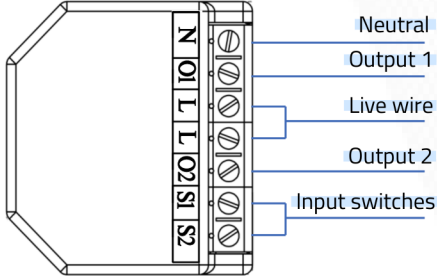
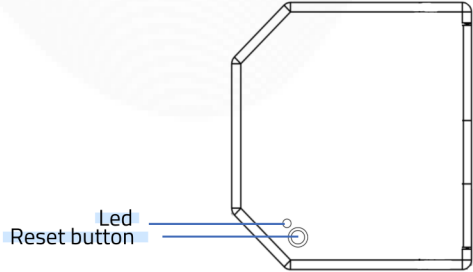




# Device Configuration and Installation Brief



- ① Luminosity Sensor
- ② Motion Sensor
- ③ Humidity Temperture sensor
- ④ Light A ON/OFF
- ⑤ Reset Button
- ⑥ Light B ON/OFF
- ⑦ Status LED



## Device configuration

### Download WaveOn App



If you are unable to find our app  
Use this Qr Code



Create a WaveOn account



Register to the platform using  
your email  
Validate it from your mailbox

Login to your account



After clicking on the link sent to  
you by email , Enter your  
credential to log in

Add a device to your  
account



Before adding a device , make sur  
your Bluetooth and Position is  
disabled

Enable Bluetooth and  
position when requested

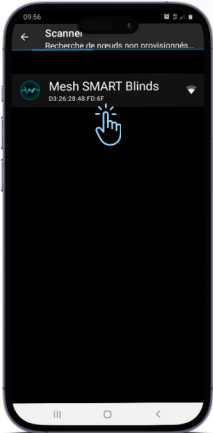


Power On your device

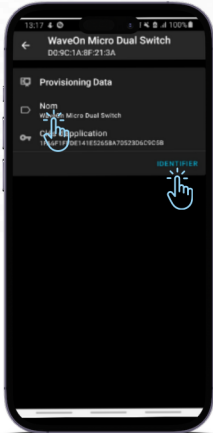
Make sur the LED indicator is ON



Select your scanned device

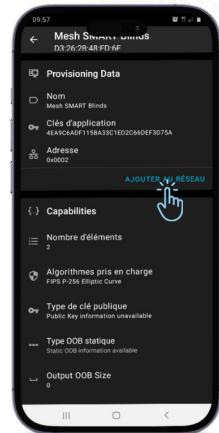


Identify your device

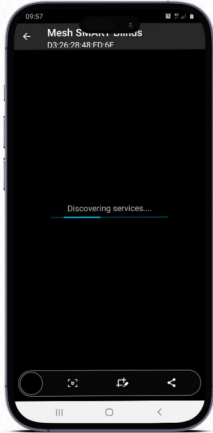


Identify your device,  
it should display  
purple color  
or toggle for  
micromodules

Add your selected device



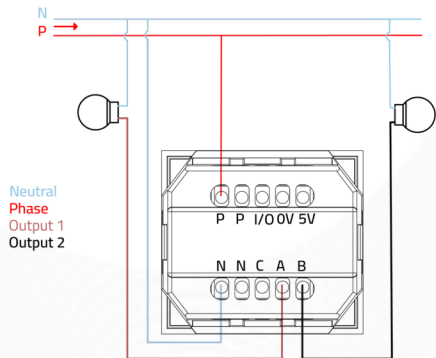
Wait until configuration is terminated



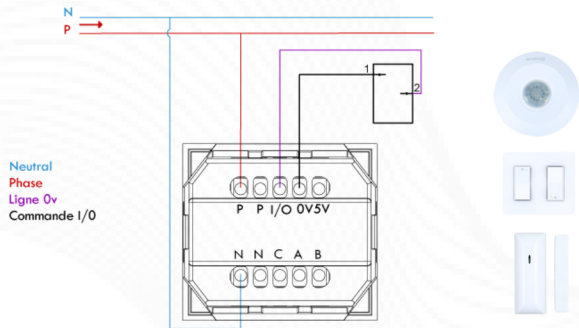
# Wiring diagrams



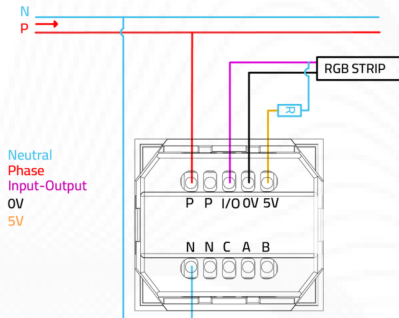
WAVEON DS : DUAL LIGHT CONTROL



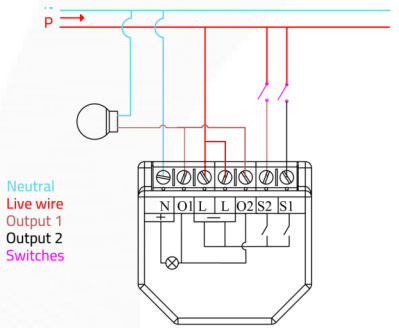
CENTRAL LIGHTING SWITCH / INTRUSION DETECTOR



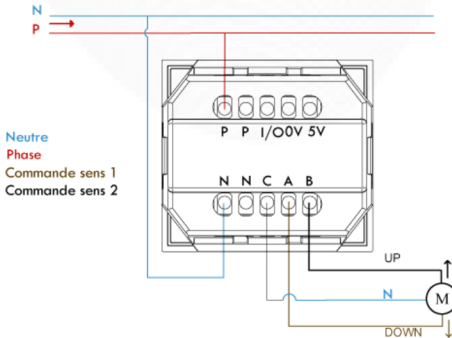
COLOR RGB STRIP CONTROL



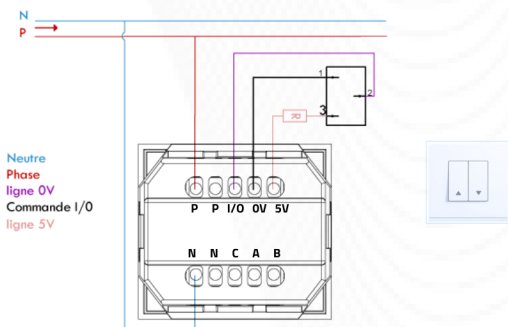
WAVEON SSM : SINGLE LOAD CONTROL



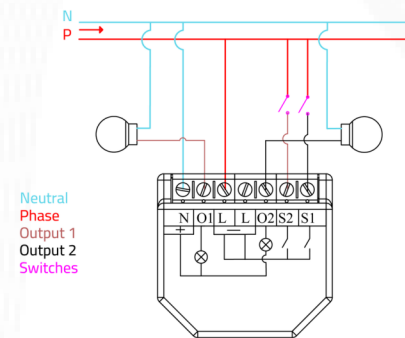
WAVEON RS : ROLLER SHUTTER CONTROL



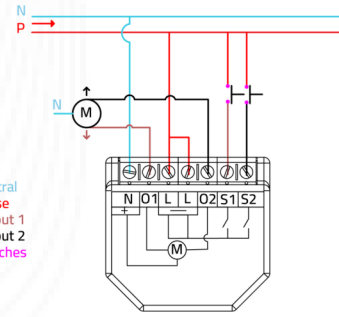
CENTRALIZATION OF BLINDS/SHUTTERS



WAVEON DSM : DUAL LIGHT CONTROL

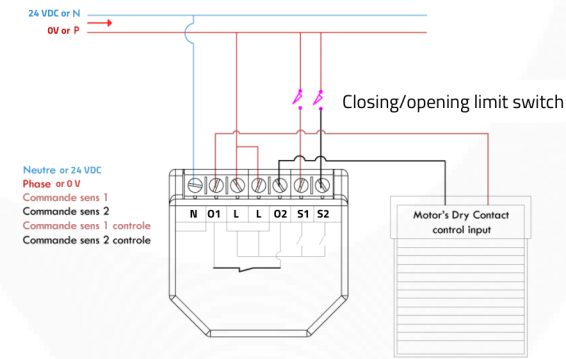


WAVEON RSM : ROLLER SHUTTER CONTROL

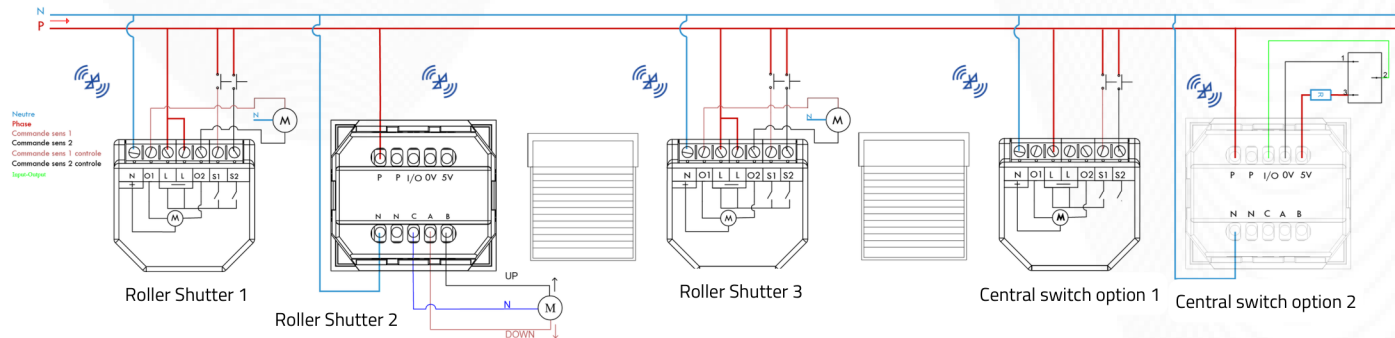




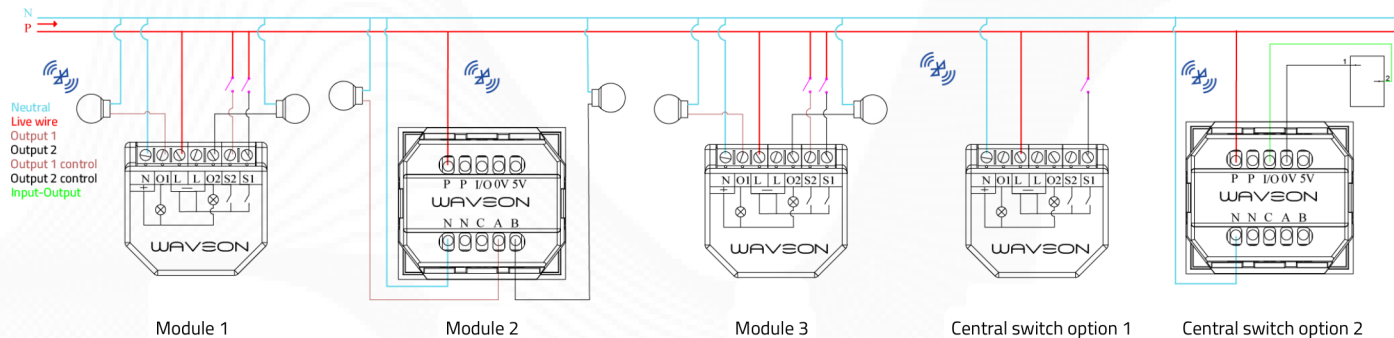
WAVEON GCM : GATE REMOTE CONTROL



CENTRALIZATION OF BLINDS/SHUTTERS ('ROLLER SHUTTER MICROMODULE' OR 'WAVEON ROLLER SHUTTER')



CENTRALIZATION OF LIGHTING





Ok Google! Turn on the light



works with  
Google Assistant



works with  
Google Home

WaveOn devices enables the creation of **large-scale** device **networks**. It is ideally suited for **control**, **monitoring**, and **automation** systems where hundreds, or **thousands** of devices need to **communicate** with one another. It was **designed** from the beginning to **meet** the strict requirements of **commercial** and **industrial** environments where **performance**, **reliability**, and **security** are of the utmost **importance**.

- leading edge Wireless Mesh Control **compatible** with all **SmartPhones**
- Form Factor **compatible** with all electric **boxes** on the **market**
- Mesh **network**
- **Secure** and encrypted **communication**
- No Router or repeater **Needed**
- Scenes, **Automations**, scheduled tasks (**Android Gateway Required**)
- Lighting, Blinds, Temperature/Humidity .. **Control** And **Supervision**
- **Control** your **Home** / building from **Anywhere** (Gateway Required)
- **Integrated** Security **System** with all type of **alerts**
- **Multiuser** with **configurable** rights and permission