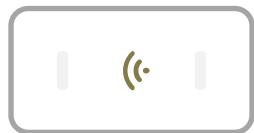
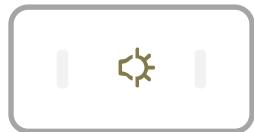




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## **Introduction:**

Thank you for purchasing an **i**gh control device. **i**gh system is designed to automate home control and provide easy remote operation of all your electrical appliances/lights connected to system. **i**gh products include a variety of devices to control your home. It can be installed in one room, expand to additional rooms or to the entire house according to your needs and budgets.

Green Point products are constructed with careful attention to detail, using only high quality materials, assuring peak performance over time.

### **Warning!!!**

#### **Controlling Appliances:**

**i**gh systems can control electrical appliances either remotely or automatically, allowing electrical appliances or light to be activated without the operator presence in the room. Extreme cautions must be taken to avoid hazard conditions.

## Important

### Read before installing

1. Install in accordance with all national and local electrical codes and local regulations of your country.
2. At the end of a successful installation, the **igh** switch will function as a standard wall switch enabling the use of only the ON/OFF buttons (without Dim). Only after the activation of the **igh** switch, it will acquire additional functionalities.
3. The products of the **igh** system range are designed to be used and installed in domestic and similar environments where there is no need for special protections against the ingress of water.
4. The igh switch requires a neutral wire for operation.
5. It is recommended to use a non-metallic wall plate with the igh switch.
6. The installer must hand the user manual over to the user and should stress that the user become fully familiar with it.
7. The installer must perform the wiring operation with extreme care so as to avoid the risk of damaging the products in case of inversion and/or wire exchange.

8. In case of a breakdown or malfunction, please contact an authorized technician or the Green Point help desk.
9. There are no serviceable parts in this unit.
10. Do not paint on the **igh** switch.
11. Operate between temperatures of 14 °F and 122 °F.
12. The igh switch may feel warm to the touch during normal operation.
13. Shut OFF power through the main circuit breaker when connecting or disconnecting lights or appliances.
14. Clean the **igh** switches only with a soft dry cloth. Do not use any chemical cleaners.

# General Product Description

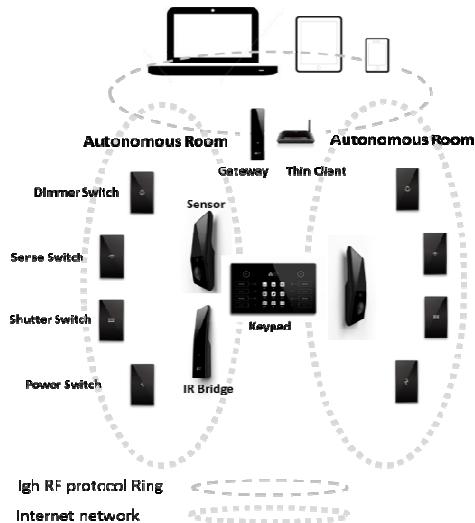
## System overview

**igh** is a home automation and power management system, enabling unified and automated control over electrical appliances connected to the system.

The system is composed of 5 main components:

- **igh Smart Switch**
- **igh Sensor**
- **igh Keypad**
- **igh IR Bridge**
- **igh Internet Gateway**

## System Connectivity



## Functions

### Key features:

- Automated functionalities
- Integrated scheduler (up to 16 schedulers)
- Remote control via other **igh** products
- Manual control with the front touch panel
- LED indicators

### Operating Modes

There are 3 operating modes, Automatic, Eco and Manual, that can be toggled manually, remotely or in accordance with 16 preconfigured schedulers, allowing maximum adaptation to the user's lifestyle.

#### Automatic Mode

The lights/appliances are controlled automatically using sensor information such as motion detection, light intensity, temperature and synchronize clock.

#### Eco Mode

The lights/appliances turn OFF automatically in accordance with your preferences and sensor information.

#### Manual Mode

Switching ON/OFF of the lights/appliance is managed manually, without automation.

## **Internal Capabilities**

### **RF transceiver capabilities:**

The internal transceiver works on ISM Band (433.040 - 434.400 MHz). The transceiver communication range is up to 10 m depending on the number of walls in the way.

### **Real time power consumption**

#### **metering:**

The measurement of the power consumption is done via DSP - Digital Signal Processing.

### **Decision making capabilities**

The **igh** switch is equipped with **igh** smart home automation software, you can configure the switch and adjust it to your lifestyle. In addition, It has self-learning capabilities that will adjust itself automatically to your lifestyle.

## **Switch Power Specification**

### **Dimmer Switch – IGHH:**

120V – 60Hz

250W/250VA

Maximum power per gauge 300W

The Dimmer Smart Switch is designed only for use with permanently installed lighting fixtures.

Do not use it to control motorized appliances or receptacles. It can be used as dimmer for any approved dimmable lights or as a regular switch for non-dimmable light.

### **Shutter Switch – IGTH:**

120V – 60Hz

250VA

The Shutter Smart Switch is designed for use only with AC powered shutters and blinds.

### **Power Switch – IGPH:**

120V – 60Hz

10A

The Power Smart Switch is designed for any AC powered light/appliance.

### **Sense Switch – IGSH:**

120V – 60Hz

10A

The Sense Smart Switch is designed for any AC powered light/appliance.

## Installation Instructions

### SHOCK HAZARD!

Turn OFF the power to the branch circuit at the circuit breaker in your electrical service panel. Ensure power is OFF before you install this device. All wiring connections must be made with the POWER OFF to avoid personal injury and/or damage to the switch.

### Assembly instructions

1. Cut OFF the power to the circuit at the fuse box or circuit breaker.
2. Remove wall plate\*\*.  
**Warning:** Verify that the power is OFF in the switch box before continuing.
3. Carefully remove the switch from the switch box. DO NOT disconnect the wires.
4. Disconnect the wires from the existing switch and insert them to the **igh** switch according to Diagram 1 (add a neutral wire if needed).

5. Insert the **igh** Switch into the switch box, being careful not to pinch or crush wires.
6. Mount the wall plate.
7. Turn ON the power to the circuit in the fuse box or circuit breaker and test the system.

\*\*This switch may be used in new installations or to replace an existing wall switch. A wall plate is not included. If this is a new installation or you are replacing a switch which is not compatible with the **igh** switch, we recommend that you purchase a common standard wall plate. These are available at most home centers or hardware stores.

#### **Important Wiring Information**

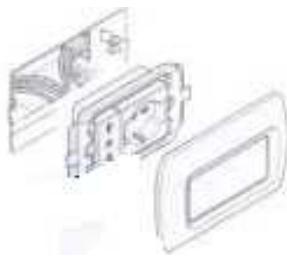
The wire connectors included with this switch are intended to only be used with 1.5 mm stiff copper solid wire.

#### **Instructions:**

1. Strip 8 mm of the insulation.
2. Hold stripped ends together in parallel and align any frayed strands. Do not twist wires.
3. Push wires firmly into connector 180°. Gently pull on the wires to check for tightness.

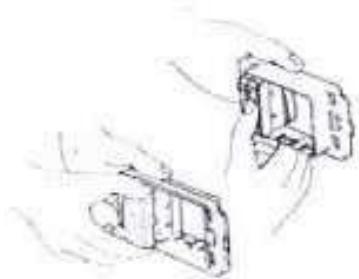
## Assembly Diagram

### Wall Mount



#### Switch installation

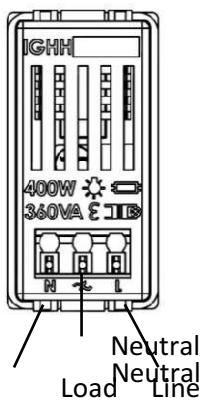
You can insert/extract the switches from the front, facilitating the assembly and wiring operations even when the frame is fixed on the box. The switch can be removed from the frame by means of a screwdriver.



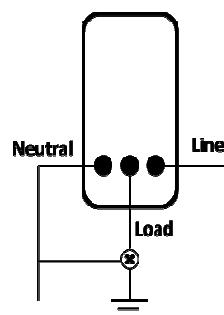
## Dimmer Switch – IGHH

### Description of terminals

Electric Wires Connection  
Diagram 1



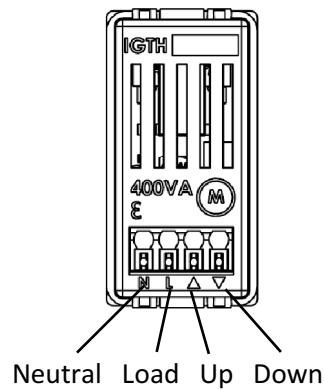
Typical Dimmer Wiring Schematic  
Diagram 2



# Shutter Switch – IGTH

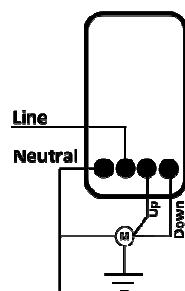
## Description of terminals

Electric Wires Connection  
Diagram 1



Natural

Typical Shutter Wiring Schematic  
Diagram 2

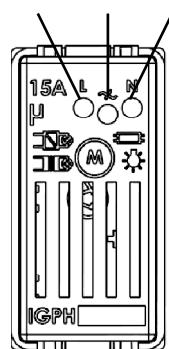


## Power Switch – IGPH

### Description of terminals

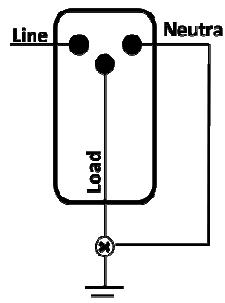
Electric Wires Connection  
Diagram 1

Line Load Neutral



Natural

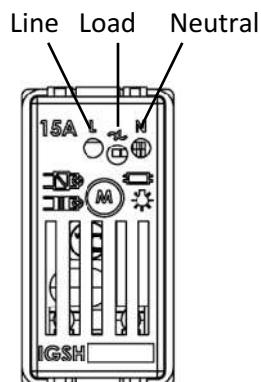
Typical Power Wiring Schematic  
Diagram 2



## Sense Switch – IGS

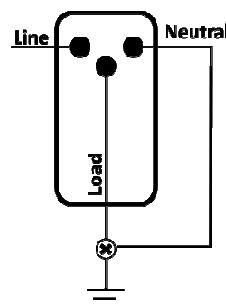
### Description of terminals

Electric Wires Connection  
Diagram 1



Natural

Typical Sense Wiring Schematic  
Diagram 2

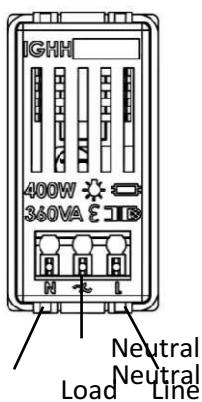


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## Alternative Switch – IGXX

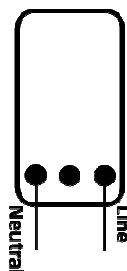
### Description of terminals

Electric Wires Connection  
Diagram 1



Natural

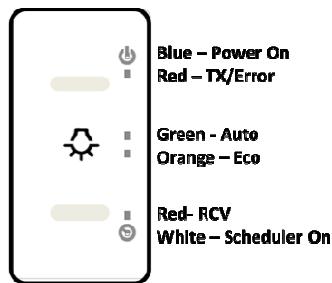
Typical Alternative Switch Wiring  
Schematic  
Diagram 2



## Operating Instruction

The switch is operated with touch technology.  
Touching the front area of the switch activates  
the commands.

### LED Indicators



### Advanced Operations

- Schedulers ON/OFF Toggle - Touch the MODE Button 6 times.
- Group activation: Select and hold the center area until the lower red LED will illuminate, the following command will be executed to all the switches in the group.

## Dimmer Switch- IGHH

### ON/OFF

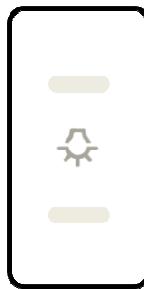
A short touch on the top/bottom area of the switch turns ON/OFF the lights.

### Dimming

A long touch on the top/bottom area of the switch adjusts the light intensity.

### Modes

Touching the middle area of the switch toggles between the modes.



## Unique Functionalities

- **Light Dimming**
- **Fade** - Soft start operation.
- **Night light**- The light will turn OFF automatically at sunrise.
- **Off level**- The light will dim to a low light intensity instead of turning OFF.
- **Learning**- The switch learns the amount of movement in the room and automatically adjusts the timers.

# Shutter Switch- IGH

## UP/DOWN

A short touch on the top/bottom area of the switch opens/closes the shutters/blinds.



## Precise Activation

A long touch on the top/bottom area of the switch adjusts the shutters to an exact position.

## Modes

Touching the middle area toggles between the modes.

## Unique Functionalities

- **Auto-Learning-** Automatically learns the shutter opening/closure times and measures power consumption.
- **Specific Level-** Move the shutter to a specific level using a smartphone or Keypad.
- **Light management-** Automatically controls the amount of room light by moving the shutters/blinds.
- **Pass-through Shutter-** Blocks remote and automatic controls downwards.

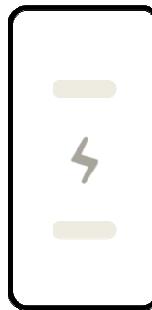
## Power Switch- IGPH

### ON/OFF

A touch on the top/bottom area of the switch turns ON/OFF the appliance.

### Modes

Touching the middle bottom area of the switch toggles between the modes.



## Sense Switch- IGSH

### ON/OFF

A touch on the top/bottom area of the switch turns ON/OFF the appliance.

### Modes

Touching the middle area of the switch toggles between the modes.



## Alternative Switch - IGXX

Touch panels of the alternative switch will be the same as the primary switch.



## **SPECIFICATIONS**

**Network Coverage:** Up to 10m radius

**Unit Dimensions:** 4.5 x 2.3 (cm)

**Power:** 120V~ AC, 60 Hz~

**Signal (Frequency):** ISM BAND (433.040 -

434.400 MHz)

## **WARRANTY**

Green Point Products warrants this product to be free from manufacturing defects for a period of one year from the original date of consumer purchase. This warranty is limited to the repair or replacement of this product only and does not extend to consequential or incidental damage to other products that may be used with this product.

## **Regulatory Compliance**

The IGHH, IGTH, IGSH, IGPH, IGXX – switch units have been tested and found to comply with specifications for CE marking and standards per EMC and radio communications and safety Compliance.

### **Safety**

EN60669-2-1: 2004 + A1: 2009 + A12: 2010 + AC: 2007

Switches for household and similar fixed electrical installations - Part 2-1: Particular requirements - Electronic switches

EN60669-1: 1999 + A1: 2002 + A2: 2008

Switches for household and similar fixed-electrical installations - Part 1: General requirements

### **EMC**

ETSI EN301489-1 and EN301489-17  
Electromagnetic compatibility and Radio Spectrum Matters (ERM); Electro-Magnetic Compatibility (EMC) standard for radio Equipment and services: Part 1: Common Technical requirements

### **Radio**

ETSI EN 300 220 V2.4.1 (2012-01)  
Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Radio equipment to be used in the 25 MHz to 1,000 MHz frequency range with power levels ranging up to 500 mW; Part 1: Technical characteristics and test methods

Each Green Point systems LTD  
product contains IGHF RF  
module FCC ID: 2AFMJ-IGHF

Changes or modifications not  
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the manufacturer could  
void the user' s authority  
to operate the  
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# **FCC Radio frequency interference 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 FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and 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.

***Green Point Systems LTD*** is not responsible for any radio or communication interference caused by using other than specified or recommended cables and battery or by unauthorized changes or modifications to this equipment. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.



Green Point System Labs  
[www.greenpointsys.com](http://www.greenpointsys.com)

