## 03981 - Connected relay module

The retrofit connected relay module is designed to operate a load via wireless connection and from a traditional remote push button. It is fitted with:
- 1 relay output to control the loads indicated in the CONTROLLABLE LOADS section;
- 1 input to control the device;
- 1 input to recall a scenario in Bluetooth mode (in Zigbee mode both inputs control the device).

### TWO OPERATING MODES (ALTERNATIVE)

**Bluetooth** or **zigbee**

Download the View Wireless App from the stores onto the tablet/smartphone you will be using for configuration.

When the device is powered for the first configuration, we recommend you search for any new firmware and perform the update.

Depending on the mode you select, you will need:

| Bluetooth | zigbee |
|---|---|
| Gateway art. 20597-19597-16497-14597 | Zigbee Gateway (Amazon Echo Plus, Echo Show or Echo Studio) Alexa App |
| View App for management via smartphone/tablet | |
| Alexa, Google Assistant, Siri and Homekit voice assistants for possible voice operation | |

### CONFIGURATION IN Bluetooth

1. Create your Installer account on MyVimar (on-line).
2. Wire all the devices in the system (2-way switches, relays, thermostats, gateway, etc.).
3. Start the View Wireless App and log in with the credentials you just created.
4. Create the system and the environments.
5. Associate all the devices with the environments, except for the gateway (which should be associated last).
   To associate the relay module:
   • Select "Add" (  ), choose the environment to place it and give it a name
   • Select  ; activate the Bluetooth connection on your tablet/smartphone and approach the relay module
   • Press the push button connected to terminal P1 and set the desired function
6. For every device, set the function, the parameters and any accessory devices (wired or radio control and related function).
7. Transfer the configuration of the devices to the gateway and connect it to the Wi-Fi network.
8. Transfer the system to the Administrator user (who must have created his/her profile on MyVimar).

**For full details, see the View Wireless App manual that can be downloaded from the www.vimar.com website.**

### CONFIGURATION IN zigbee

Follow the procedure above from points 1 to 3.

**Associate the relay module directly with Amazon Echo Plus, Echo Show or Echo Studio.**

1) Press the push button connected to P1 until the LED flashes. Download the Zigbee software onto the device using the View Wireless App (see the View Wireless App manual).
   To update the software on the device, the procedure is the same.
2) After conversion to Zigbee technology (or the software update), relay module automatically goes into pairing mode so that it can be recognised by the Amazon device within 5 minutes. If the relay module is not in pairing mode, cut off the power supply and restore it after a few seconds.
3) Associate the relay module with Amazon Echo Plus, Echo Show or Echo Studio according to the procedure envisaged by the voice assistant (see the Amazon documentation).

**Set the relay module parameters.**

1) Within the first 5 minutes after the device has been powered (already associated with Alexa), press the push button connected to P1 for 15 s; this way, you can select the relay operation - between one-position stable and two-position stable (the LED flashes green for the two-position stable setting and amber for the one-position stable setting).
2) Briefly press the push button connected to P1 to switch from two-position stable to one-position stable and vice versa; once the choice has been made, press the push button connected to P1 for 5 s to confirm. If you have set the two-position stable setting, the LED flashes green three times, whereas if you have chosen the one-position stable setting, you will move on to the next step (3).
3) Press the push button connected to P1 for 5 s to set the one-position stable activation time. Press the push button connected to P1 briefly, the output is activated and the LED lights up amber permanently; at the end of the time you wish to set, press the push button connected to P1 again. The output is deactivated and the LED flashes amber for 3 times to confirm the setting made.

**N.B.** When the voltage returns after a power outage, the relay maintains the state in which it was prior to the power supply cut out.

Summary of Zigbee technology mode signalling.

• During normal operation:

| LED | Meaning |
|---|---|
| Off | Normal operation |

• In the configuration phase:

| LED | Meaning |
|---|---|
| Flashing white (for max 5 min.) | Zigbee mode active pending voice assistant |
| Flashing blue (for max 2 min.) | Pending receipt of a fw update |
| Blue permanently lit | Device associated via Bluetooth with the smartphone |
| Flashing green during one-position/two-position stable configuration (for max 2 min.) | Setting in two-position stable |
| Flashing amber during one-position/two-position stable configuration (for max 2 min.) | Setting in one-position stable |
| Amber permanently lit | One-position stable time setting |
| Flashing green 3 times | Confirms two-position stable setting |
| Flashing amber 3 times | Confirms one-position stable setting |
| Flashing green rapidly 3 times | Device correctly associated with the voice assistant |

### CONTROLLABLE LOADS.

| Loads - maximum | ☼ | ⏚ | ▭ | ▱⊗ |
|---|---|---|---|---|
| 100 V~ | 250 W | 50 W | 60 W | 125 VA |
| 240 V~ | 500 W | 100 W | 120 W | 250 VA |

### RESETTING THE RELAY MODULE.

The reset restores the factory settings. Within the first 5 minutes from powering, press the push button connected to P1 for 30 s until LED flashes white.

### INSTALLATION RULES.

• Installation and configuration must be carried out by qualified persons in compliance with the current regulations regarding the installation of electrical equipment in the country where the products are installed.
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• The relay output power circuit must be protected against overloads by installing a device, fuse or automatic 1-way switch, with a rated current not exceeding 10 A.
• Installation must be carried out with the system switched off.

### CHARACTERISTICS.

• Rated supply voltage: 100-240 V~, 50/60 Hz.
• Dissipated power: 0.55 W
• RF transmission power: < 100mW (20dBm)
• Frequency range: 2400-2483.5 MHz
• Terminals:
  - 2 terminals (L and N) for line and neutral;
  - 1 terminal (P1) to control the device;
    If configured in the Energy application, it forces the output ton for the time set on the View App.
  - 1 terminal (P2) to recall a scenario (in Bluetooth technology) and to control the device (in Zigbee technology);
    If configured in the "Energy" application, remove the forcing and the device is managed with the load control logics.
  - 1 terminal (1) for connection to the load.
  For inputs P1 and P2 use push buttons art. 20008-19008-16080-14008.
• The push button connected to P1 is used both to control the load and as a configuration push button.
• RGB LED that indicates the configuration status (flashing blue)

- In Bluetooth technology mode, you can associate up to 2 radio devices (art. 03925) which make it possible to control the actuator or activate a scenario.
- Operating temperature: -10 ÷ +40 °C (for indoors).
- Protection degree: IP20
- Controllable via View App, Alexa, Google, Siri and Homekit voice assistantfor Bluetooth technology system
- Controllable directly from Alexa voice assistant and via Amazon Alexa App for Zigbee technology.

## OPERATION IN Bluetooth technology MODE.

In Bluetooth technology mode, the device should configured using the View Wireless App.

The App can be used to set the following parameters:

• Lighting in standby: high, medium, low, off; default = medium

The device operates by default in Bluetooth technology mode and this standard makes it possible to:

- recall a scenario using the traditional push button connected to input P2.
- associate the radio control 03925 which can be configured to control the actuator on-board or to recall a scenario.

    If configured in the "Energy" application, the radio control forces the output on (by pressing the upper key) and removes the forcing (by pressing the lower key).

Through the use of gateway 20597-19597-16497-14597 the functions can be managed locally or remotely via the View App, and the control is also available via the voice assistants Alexa, Google Assistant and Siri.

The device is also compatible with Homekit.

N.B.: From fw version 1.7.0, the device works as a repeater node for battery-operated devices (for instance art. 03980).

### Settings.

The View Wireless App can be used to set the following parameters:

- Load status when the voltage is restored: off, on or previous status (default: previous status).
- Relay operation: two-position stable or one-position stable (default: two-position stable).
- One-position stable activation time (minimum activation time 1 s; default: 60 s).
- Activation delay in a scenario.

## REGULATORY COMPLIANCE.

RED Directive. RoHS directive.

Standards EN 60669-2-1, EN 301 489-17, EN 300 328, EN 62479, EN 50581.

Vimar SpA declares that the radio equipment complies with Directive 2014/53/EU. The full text of the EU declaration of conformity is on the product sheet available on the following website: www.vimar.com

REACH (EU) Regulation no. 1907/2006 – Art.33. The product may contain traces of lead.

**WEEE - User information**
The crossed bin symbol on the appliance or on its packaging indicates that the product at the end of its life must be collected separately from other waste. The user must therefore hand the equipment at the end of its life cycle over to the appropriate municipal centres for the differentiated collection of electrical and electronic waste. As an alternative to independent management, you can deliver the equipment you want to dispose of free of charge to the distributor when purchasing a new appliance of an equivalent type. You can also deliver electronic products to be disposed of that are smaller than 25 cm for free, with no obligation to purchase, to electronics distributors with a sales area of at least 400 m². Proper sorted waste collection for subsequent recycling, processing and environmentally conscious disposal of the old equipment helps to prevent any possible negative impact on the environment and human health while promoting the practice of reusing and/or recycling materials used in manufacture.

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### FRONT VIEW
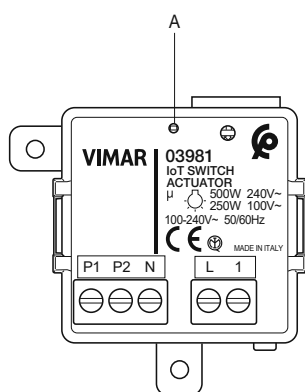


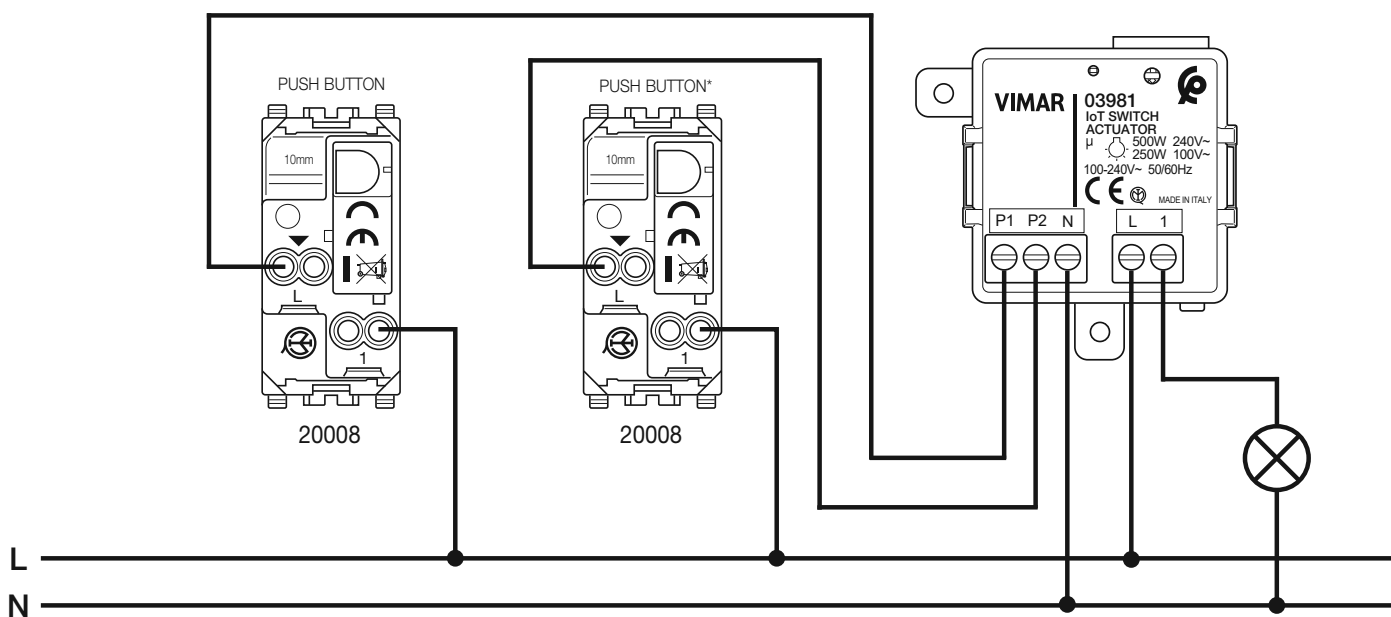A: Configuration LED

1: Output for connection to the load

L: Phase

N: Neutral

P1: Input for device control push button

P2: Input for scenario recall push button (only for Bluetooth technology) or device control (only for Zigbee)

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### CONNECTIONS



PUSH BUTTON    20008

PUSH BUTTON*    20008

* Can recall a scenario involving lights/roller shutters/socket outlets controlled in the system (only in Buletooth technology).