SAR-G+

INSTALLER MANUAL

SAR-G+_fw 2.0.1 REV.0125|ENGLISH

INDEX

1. SAFETY, CAUTIONS AND WARNINGS

- The installation and setup of this equipment must be done by an authorized installer in a suitable surface and following the current regulations.
- Do not touch the device with wet hands, or using cleaning liquids or aerosols.
- Install the monitor in a dry and secure area, protected against water drops or sprays.
- Avoid placing the device close to heating/cooling sources, humid or dusty areas.
- Do not cover the device ventilation openings to assure air flow circulation.
- Do not open the monitor cover or manipulate the monitor 's electric circuit.
- Danger of electric shock.

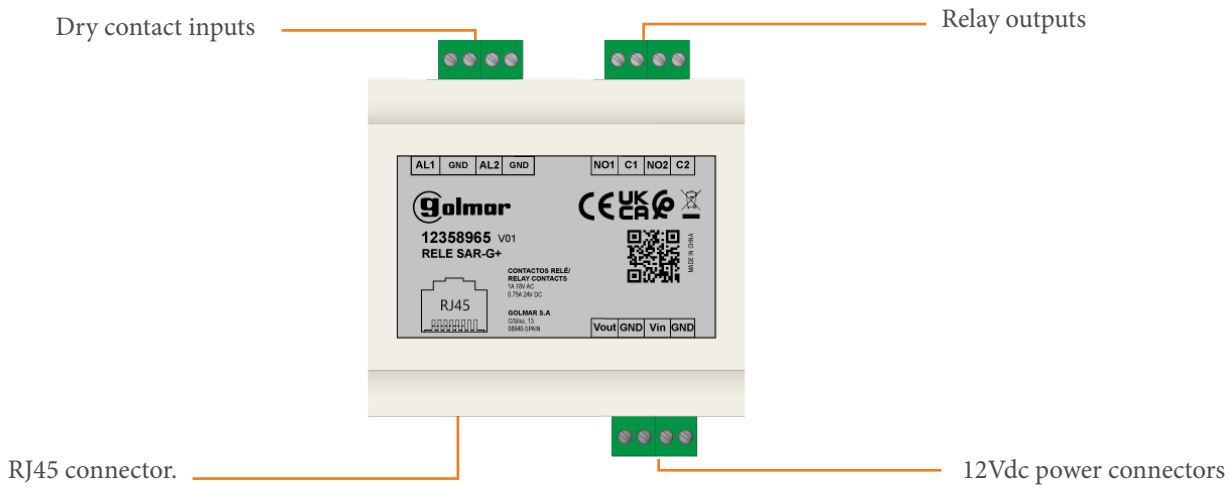
The full text of the EU declaration of conformity is available at the following internet address: https://www.golmar.es

2. IP G+ SYSTEM SPECIFICATIONS

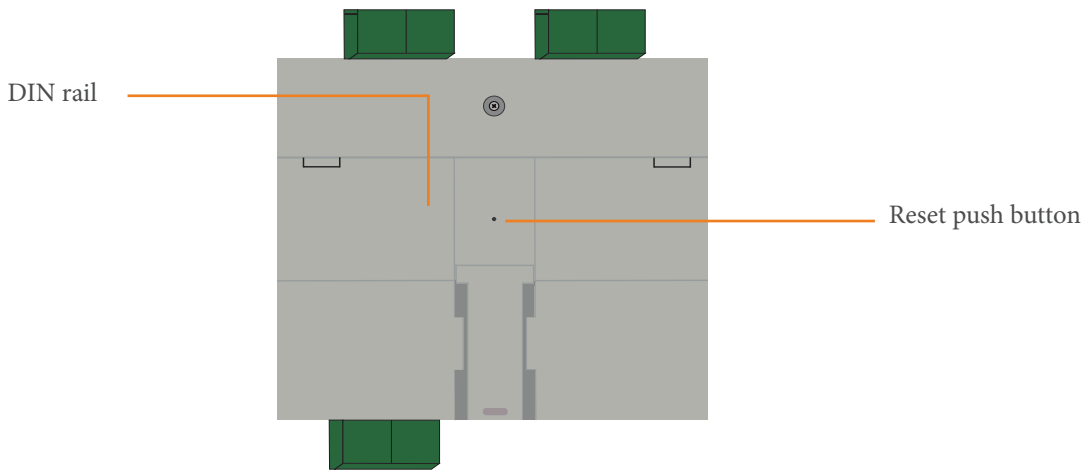
- TCP/IP video intercom system with technology IP-G+.
- Installation over ethernet network.
- Up to 98 blocks in one system.
- Up to 99 entry panels at each block.
- Up to 19 general panels at each installation.
- Up to 799 flats per each block.
- Up to 19 guard units for the general compound and 9 guard units at each block.
- Up to 256 ONVIF cameras and 30 SIP servers.

3. RELAY DESCRIPTION

- Front side

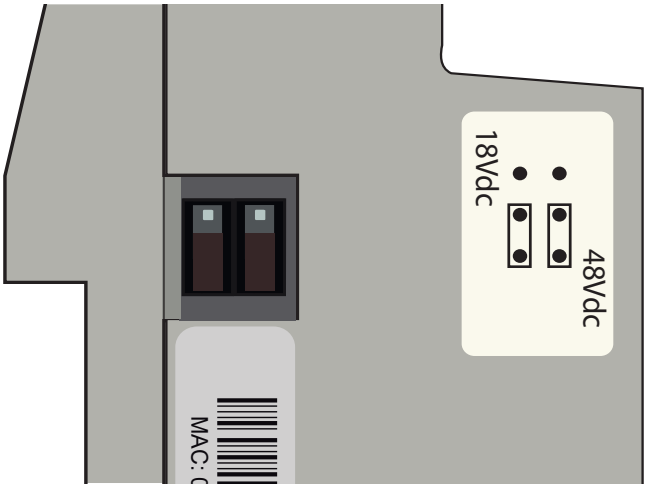


- Back side

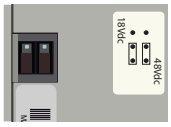


4. RELAY INSTALLATION

- Jumper adjustment



Make sure that the jumper is set at 48V. It wil allow to conect the SAR-G+ to PoE switches with 802.3af protocol.



48V standard PoE power mode.

WARNING: SAR-G+ is not equipped with a fuse protection, therefore it cannot perform direct operations over electrical sources. It is necessary an extrernal relay to perform the power maneouvre. The 12Vdc supplied by SAR-G+ should be used to enable the Golmar door locks or as a signal to drive a third relay. The max. output rate of SAR-G+ is 12Vdc 270mA.

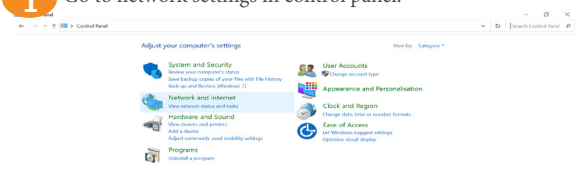
Check the section 6 for further information about connections.

5. CONFIGURATION BY WEBSERVER

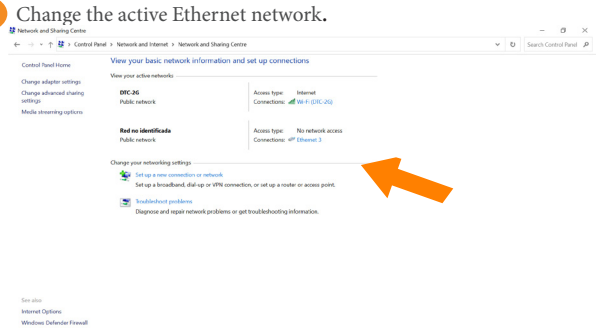
SAR-G+ relay can be configured via its webserver. To do this, you need to connect your computer to the network.

The factory IP address of the relay is **10.0.0.254.** Check that your computer network connection is in the same range. To change your computer network parameters perform the following steps:

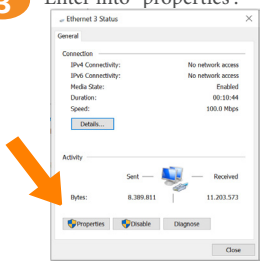
1 Go to network settings in control panel.



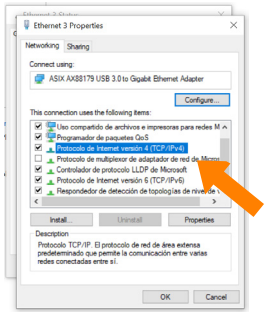
2 Change the active Ethernet network.



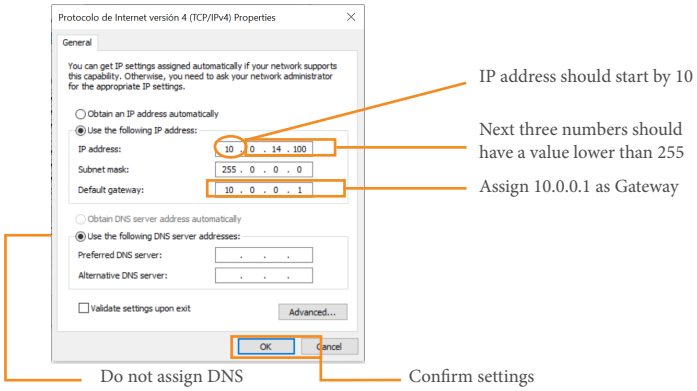
3 Enter into "properties".



4 Select Internet protocol IPv4.

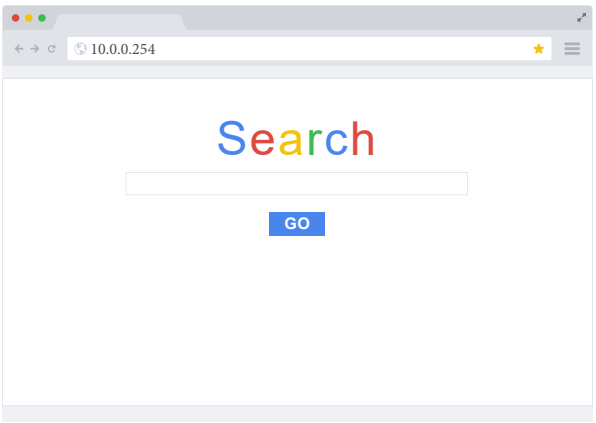


5 Set the IP range.



Now the computer is configured to work in the same IP range as the relay.

Type the IP in the browser. **Factory IP is 10.0.0.254**



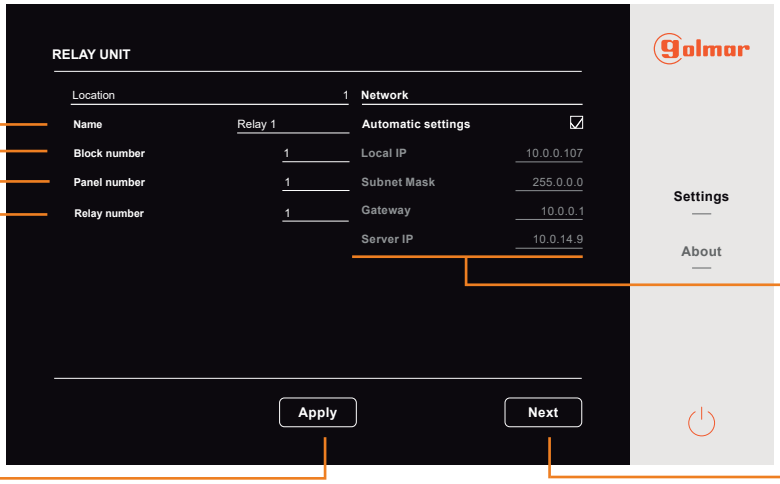
Log into the webserver.

The default password is 2718.

5.1 Settings

In the settings first page, it is possible to set the physical address of the relay, as well the network parameters.

Set up the Block number and Door panel number to which the relay is associated to. So, all actions of the relay will be related to those parameters.
Relay number should be the relay extension.



Device name.

Block number.

Door panel number.

Relay number of the block.

Manual assignment of network parameters.

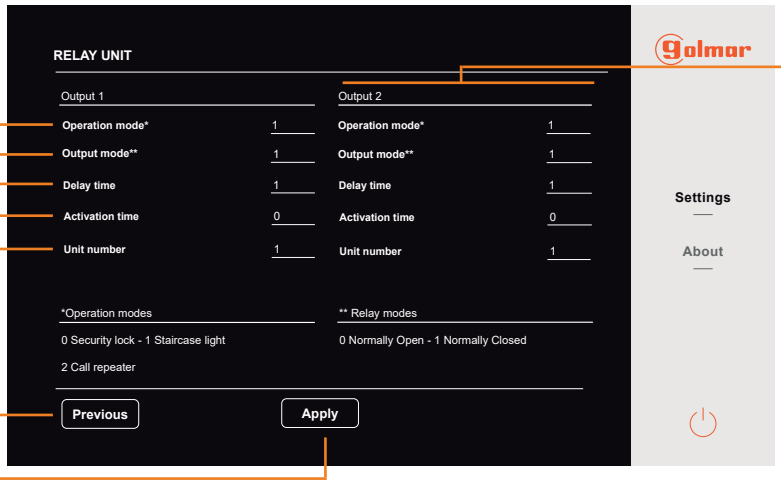
Apply settings.

Go to the next screen.

**Unless a specific network conflict, always is recommended to chose the automatic assignement, then the system will set each device with its corresponding IP address automatically.*
The IP G+ system takes networks in the range 10.xxx.xxx.xxx in automatic IP assignement.

5.2 Outputs configuration

SAR-G+ has two relay outputs which can perform the following operations, depending on the mode which is chosen. It is explained each of them. Each relay output can be assigned with independent mode and parametrization.



Output 2 parameters.

Operation mode.

Output 1 mode.

Delay time.

Activation time.

Unit number.

Go to previous screen.

Apply settings.

a. Security lock

The security lock function allows that SAR-G+ closes the contact when its associated panel is intructed to open the door. In this way, an extra level of security is added to the installation as the lock cannot be manipulated in the case that the panel is tampered.

Output mode: Set whether the relay is normally closed or normally open.
Delay time: Is the delay time in seconds before the relay closes.
Activation time: Is the time in seconds that the relay should keep closed (it is a continous pulse).
Unit number: Refers to which door lock open command the relay will obey. Set "1" for door lock 1 and "2" for door lock 2.

b. Staircase light

The Staircase light function allows that SAR-G+ closes the contact when its associated monitor(s) instructs to activate the stair case light. In this way, the installation has an extra layer of comfort and security, because we can activate the light before exit the apartment, not being necessary to keep the lights on and saving energy.

Note: This mode requires that the monitor has enabled the staircase light function in its Installer settings menus.

Output mode: Set whether the relay is normally closed or normally open.
Delay time: Is the delay time in seconds before the relay closes.
Activation time: Is the time in seconds that the relay should keep closed (it is a continous pulse).
Unit number: Refers to which monitor or groups of monitors will be associated with such relay for that function.

- The way to associate the monitors follows the method like the print page selection in a document:
  1,5,7 Monitors 1, 5 and 7 will be associated.
  2-7,9-11 Monitors from 2 to 7 and from 9 to 11 will be associated.

c. Call repeater

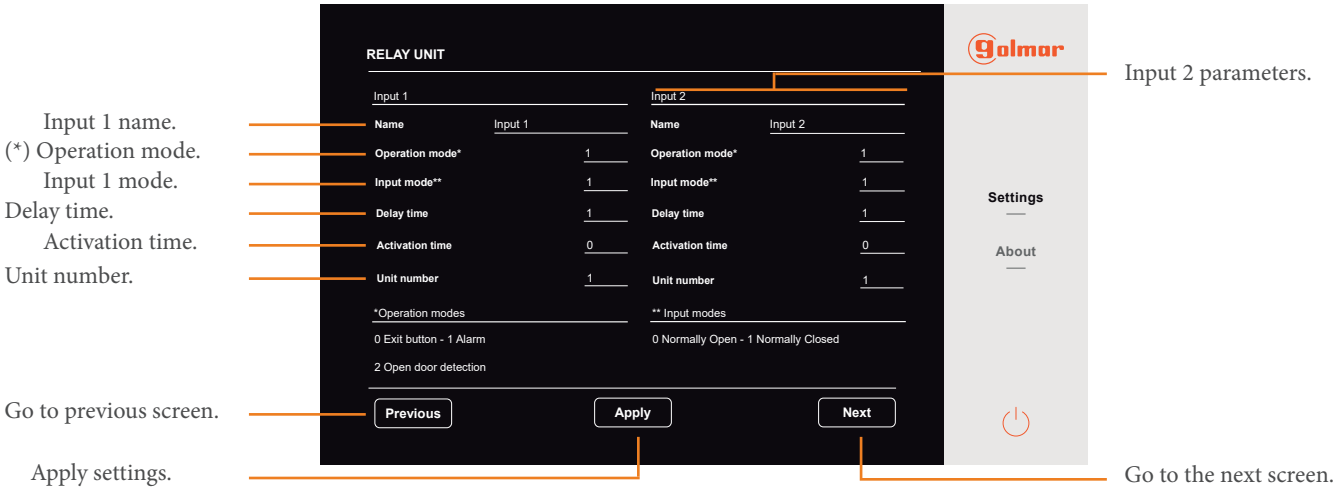
The Call repeater function makes that SAR-G+ closes the contact when its associated monitor(s) receives a call. In this way, when there are not cables prepared to arrive to SA-GND connectors from the monitor, we can find a point in the network to connect SAR-G+. We can place a siren or a flashing light...

Output mode: Set whether the relay is normally closed or normally open.
Delay time: Is the delay time in seconds before the relay closes.
Activation time: Is the time in seconds that the relay should keep closed (it is a continous pulse).
Unit number: Refers to which monitor or groups of monitors will be associated with such relay for that function.

- The way to associate the monitors follows the method like the print page selection in a document:
  1,5,7 Monitors 1, 5 and 7 will be associated.
  2-7,9-11 Monitors from 2 to 7 and from 9 to 11 will be associated.

5.3 Inputs configuration

SAR-G+ has two relay inputs, which can perform the following operations depending on the mode which is chosen. It is explained each of them. Each relay input can be assigned with independent mode and parametrization.



a. Exit button

The Exit button function, allows that SAR-G+ to instruct the panel to close the door lock contact to open the door. If the relay itself or another relay has been set as Security lock, it will close the contact for this panel's instruction. This function is useful when cables are not passed from the button to the panel and is preferrable to use the SAR-G+ connected to any point of the network, necessary too for added security. It can be used also in concierge points when they want to have a direct accessible button to open the door.

Output mode: Set whether the relay is normally closed or normally open.
Delay time: Is the delay time in seconds before the instruction to open the door is sent.
Activation time: Is the time in seconds that the door should keep opened.
Unit number: Refers to which door lock open command the relay will set the instruction. Set "1" for door lock 1 and "2" for door lock 2.

b. Alarm

The Alarm function allows SAR-G+ to be integrated with a third party alarm system. In this way, we can connect to its input an external alarm system (intrusion alarm, fire alarm...). When the alarm is triggered, the SAR-G+ will instruct to the associated monitor(s) to set an alarm tone and display on the screen the text which has been set in the field Name.
Note: SAR-G+ input has not supervised input for this function.

Name: Set the text to display in the monitor in the case of alarm.
Output mode: Set whether the relay input is normally closed or normally open.
Delay time: Is the delay time in seconds before the alarm message is sent.
Activation time: Does not take effect in this function.
Unit number: Refers to which monitor or groups of monitors will be associated with such relay for that function.

- The way to associate the monitors follows the method like the print page selection in a document:
  1,5,7 Monitors 1, 5 and 7 will be associated.
  2-7,9-11 Monitors from 2 to 7 and from 9 to 11 will be associated.

c. Open door detection

The Open door detection function makes SAR-G+ to send a warning event message when the door was forgotten open for a period of time.
Note: Door contact sensor will be required and connected to the SAR-G+ input.

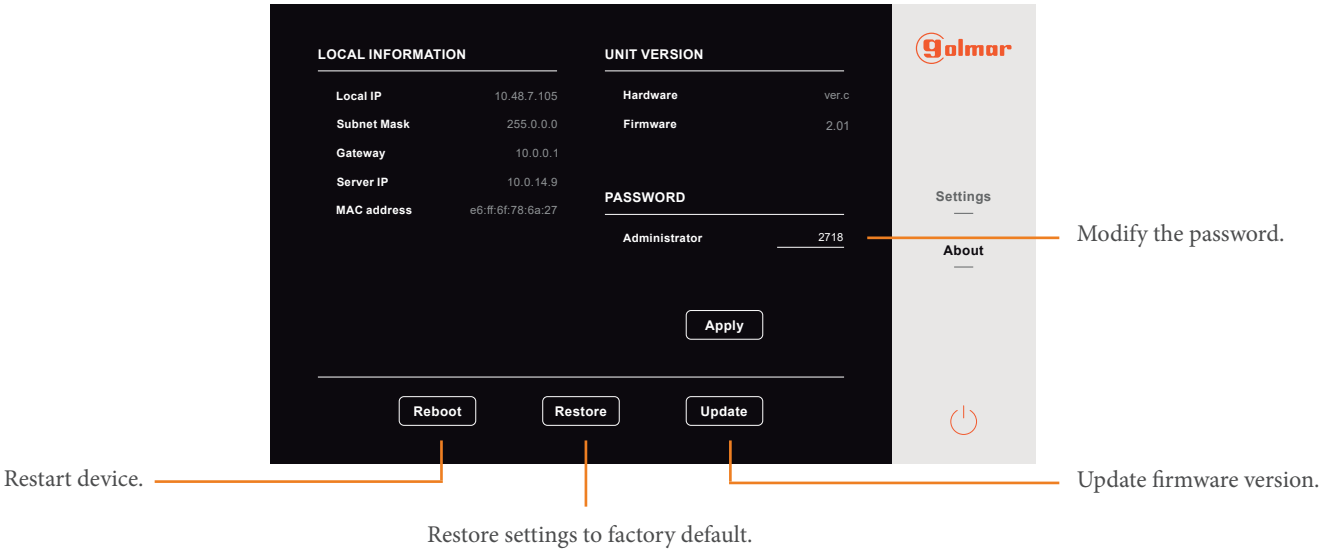
Name: Set the text to display in the monitor in the case of door forgotten open*.
Output mode: Set whether the relay input is normally closed or normally open.
Delay time: Is the delay time in minutes, before the relay considers that a door has been forgotten open.
Activation time: Does not take effect in this function.
Unit number: Refers to which monitor or groups of monitors will be associated with such relay for that function, so the monitors to be acknowledge about the door which remains open.

- The way to associate the monitors follows the method like the print page selection in a document:
  1,5,7 Monitors 1, 5 and 7 will be associated.
  2-7,9-11 Monitors from 2 to 7 and from 9 to 11 will be associated.

* The message will be recorded as an event and will appear in the events list of the monitor.

5.4 About

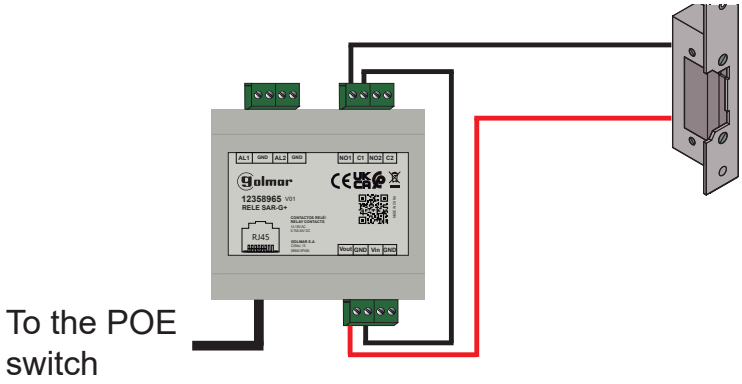
In the "About" section, it is possible to check the local information of the device, such as the network parameters, the hardware and firmware version. It is also possible to modify the password to access to the webserver, update its firmware version, restart the unit, and restore the settings to factory default values.



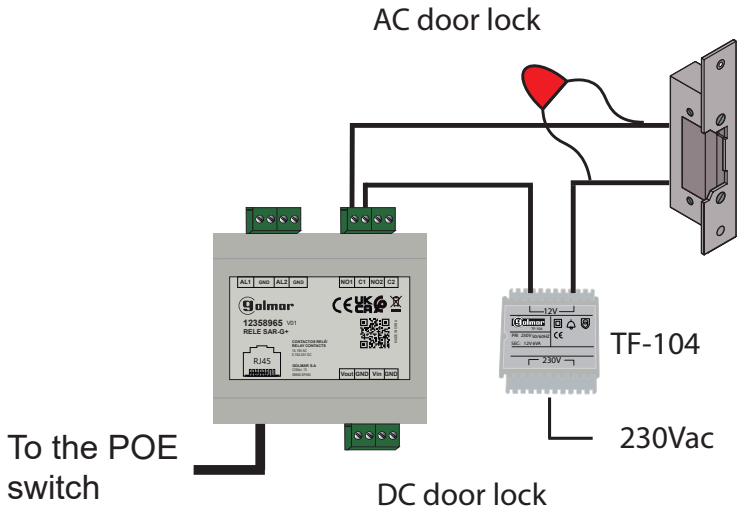
6. CONNECTION DIAGRAMS

Below appear the different connection options depending on the operation mode of the SAR-G+ relay unit. It is possible to mix some connection options depending on the needs of the installation.

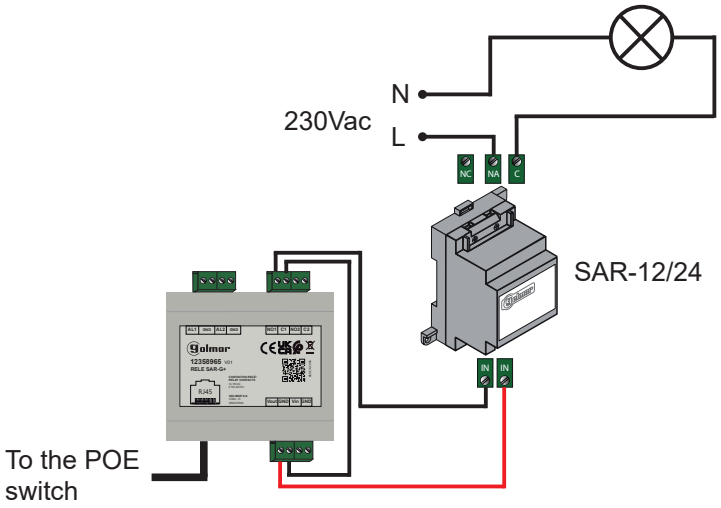
6.1 Output connections



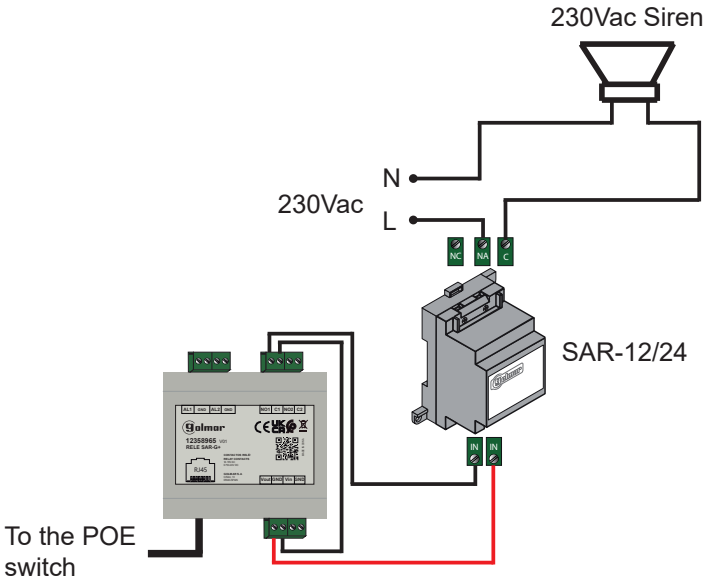
Security DC door lock connection.



Security AC door lock connection.

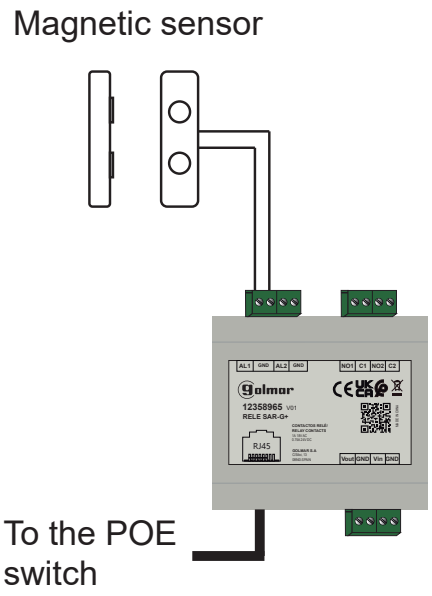


Staircase light connection.

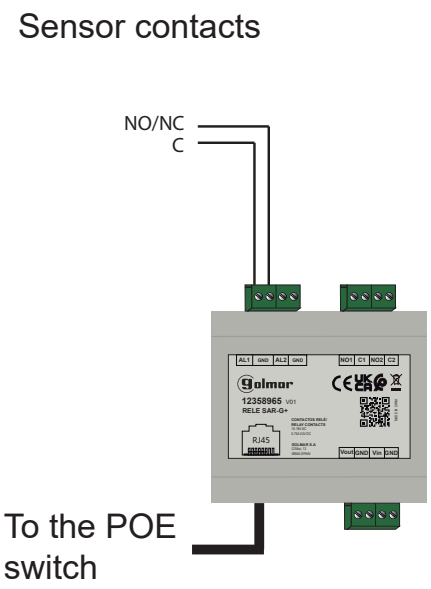


Call repeater connection.

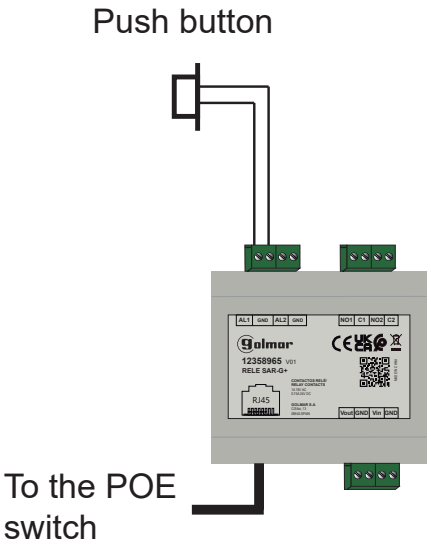
6.2 Input connections



Door opening detection connection.



Alarm input connection.



External exit push button connection.

iPG+

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