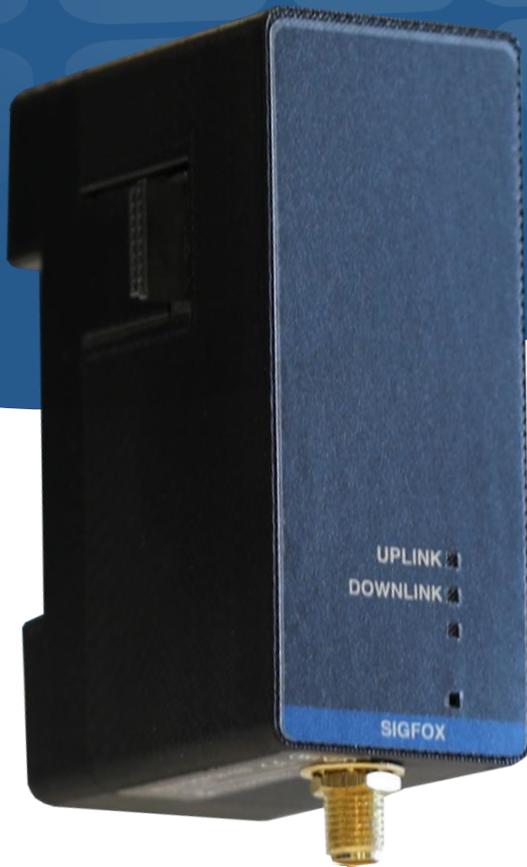




Wixia SIGFOX



SigFox connectivity
Uplink / Downlink
Remote platform
DIN-35 rail mounting

Wixia SIGFOX module offers SigFox connectivity to the system. This module must be connected to a Wixia-Controller.

This module sends data selected to Applexia Cloud in order to visualize data remotely on Applexia visualization solution and supervise the process (uplink).

This module allows downlink communication : actuators can be activate / deactivate on the Applexia platform.

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For more information
contact us or explore www.applexia.fr

PINOUT



868 MHz antenna
SMA CONNECTOR



TECHNICAL DATA

GENERAL

Compatibility	To connect to a Wixia-Controller
Power	Provided by Wixia-Controller
Type of connection	SMA connector

SIGFOX PARAMETERS

Uplink	Up to 6 sources per uplink
Downlink	4 per day
Sample rate	100ms
Antenna	Not supplied
Carrier frequency	868 MHz
Distance communication	Approximately 1 km with 3dBi antenna
Working region	EU

OPERATING CONDITIONS

Temperature	-25 to 50°C
Humidity	10 to 80%, non-condensing

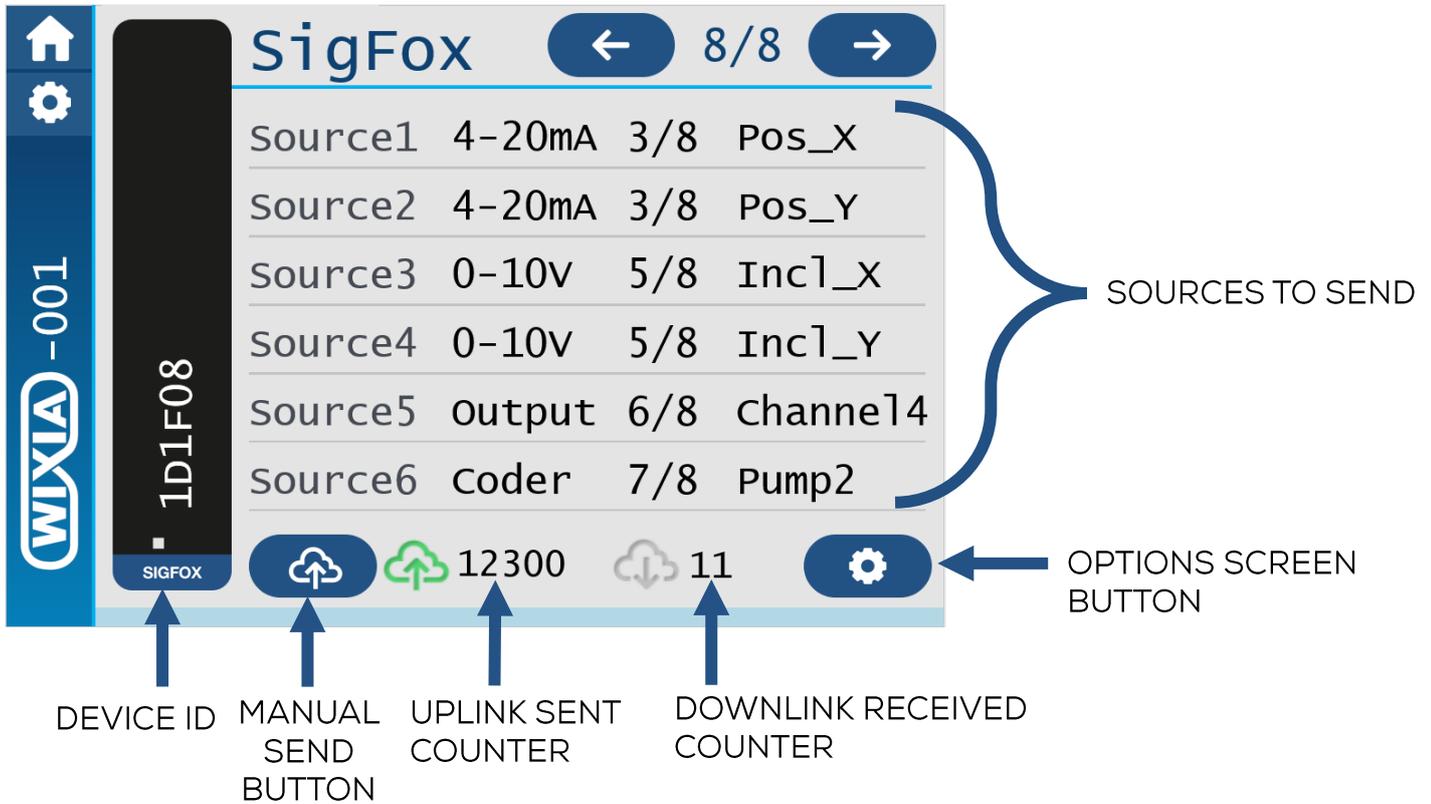
MECHANICAL CHARACTERISTICS

Dimensions (lxLxp)	5.0 x 5.1 x 9.1cm
Mounting type	DIN-35 rail
Weight	120g

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USER SCREEN INTERFACE

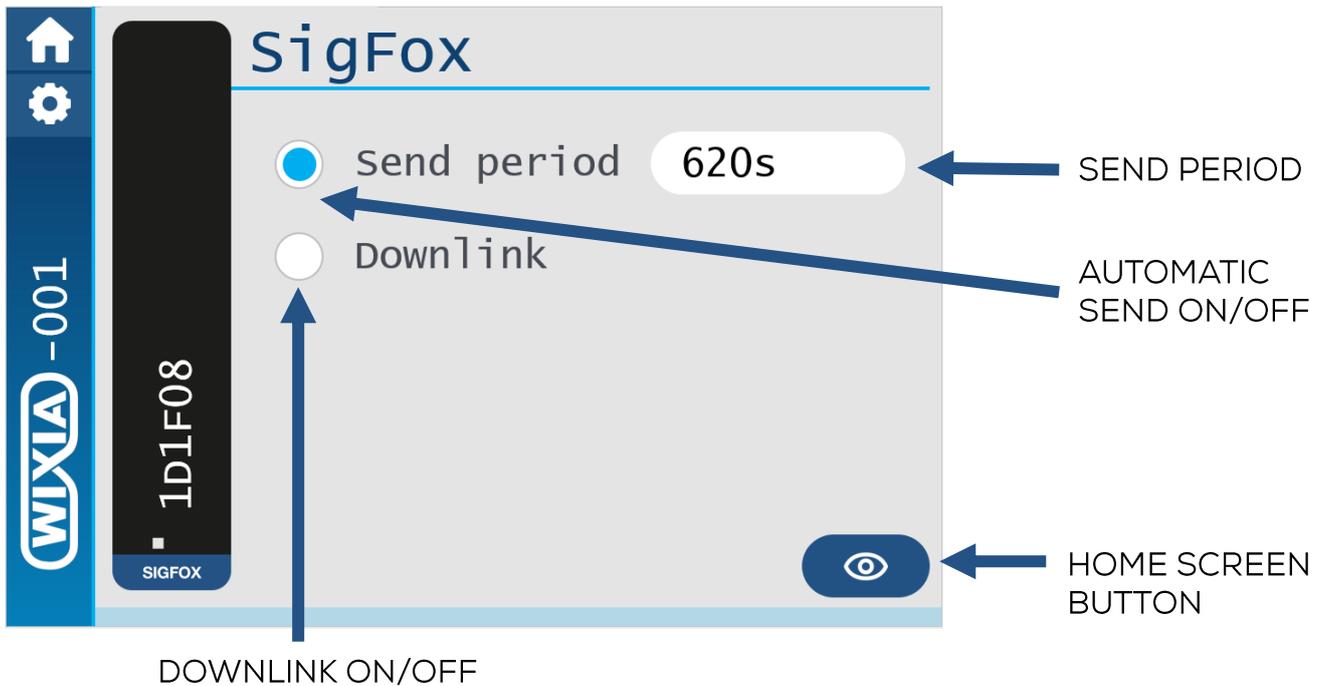


Once the module is turned on and connected to the network, the user must specify the data to be sent. The user can manually select the data sources to send to the cloud by clicking on one of the "Source" rows (detailed in the *How to select data sources* section).

- DEVICE ID: Unique identifier that allows the processing of messages sent by the module on the cloud.
- SOURCES TO SEND: List of data sources that the user has selected for sending to the cloud via the SigFox network.
- MANUAL SEND BUTTON: Performs a manual sending of the selected data.
- OPTIONS SCREEN BUTTON: Displays the options screen interface of the SigFox module (see section *Options Screen Interface* for details)
- UPLINK SENT COUNTER: Number of uplinks sent by the module.
- DOWNLINK RECEIVED COUNTER: Number of downlinks received and accepted as valid downlinks.

OPTIONS SCREEN INTERFACE

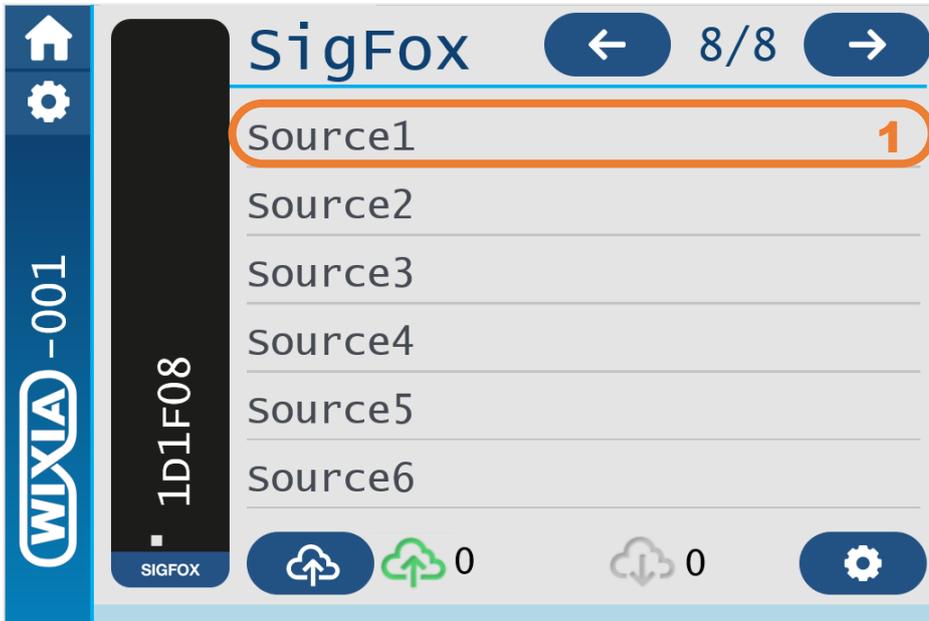
After pressing the options button, the following configuration menu is displayed. The user can change specific values in the module in order to match the desired application.



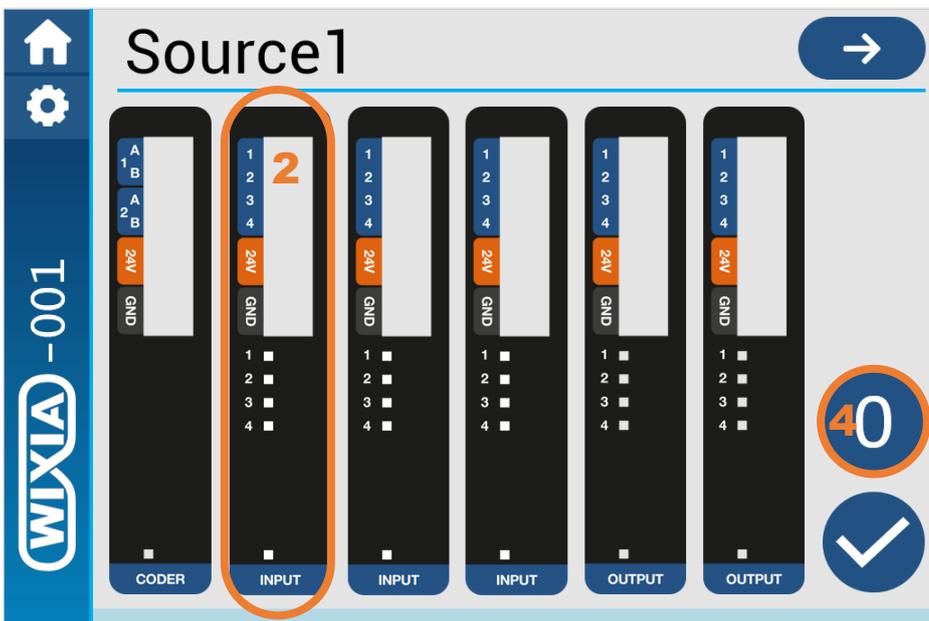
- HOME SCREEN BUTTON: Displays the home screen of the SigFox module UI.
- AUTOMATIC SEND ON/OFF: Programs an automatic sending at a defined period. This can be disabled, and the module will no longer send frames automatically.
- SEND PERIOD: Defines the time in seconds between each frame sending in automatic send.
- DOWNLINK ON/OFF: Defines whether downlink communication is enabled or not for the module.

HOW TO SELECT DATA SOURCES

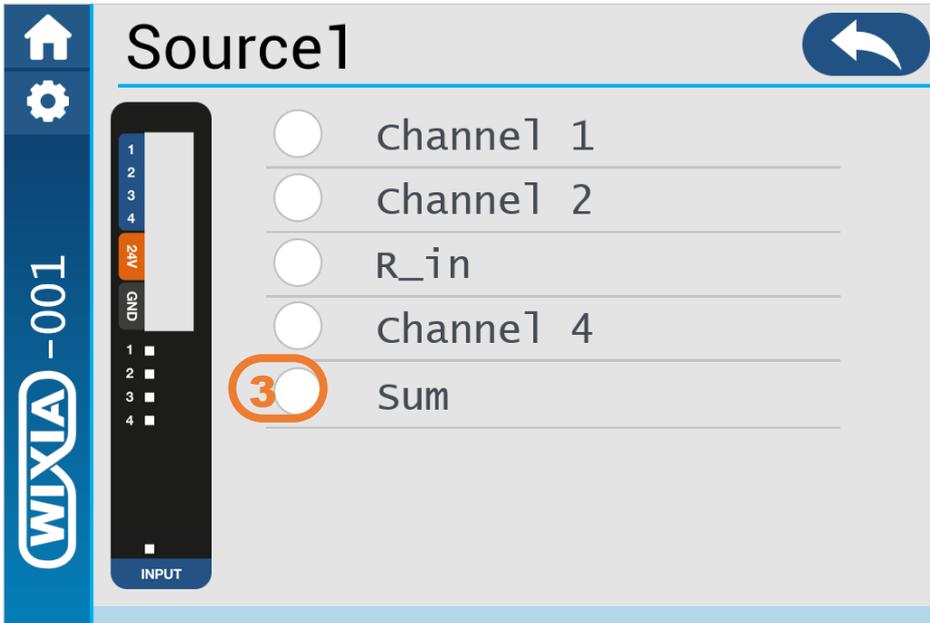
1- Click on one of the source rows.



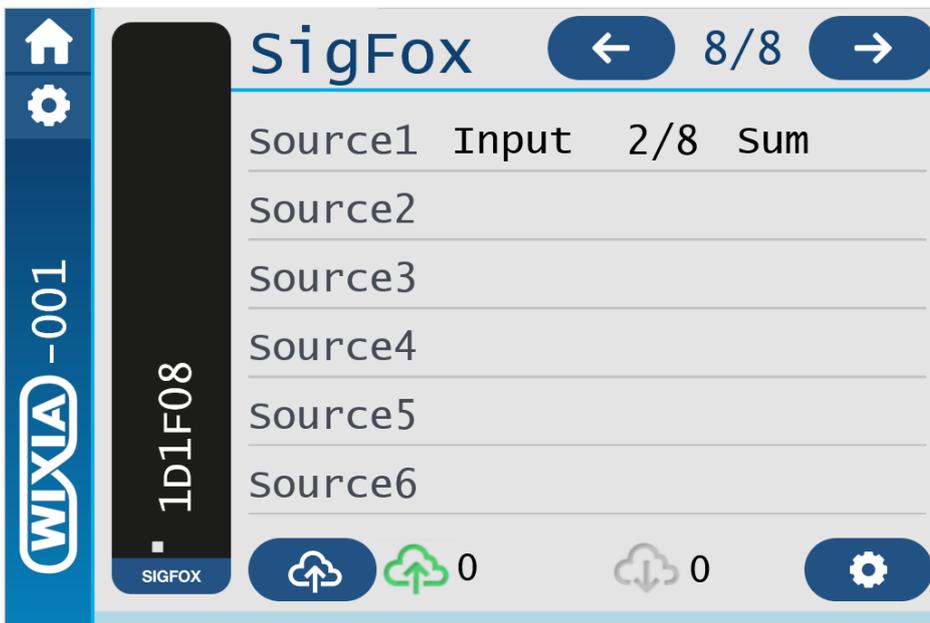
2- Select the module on which the desired data is located.



3- Select the desired data by clicking on its selection button.



4- The data source selected is now displayed on the GSM module interface.



To change the previously configured data source, simply click again on the source line and select another data source.

To completely delete the data source without selecting another, click on the button indicated by (4).

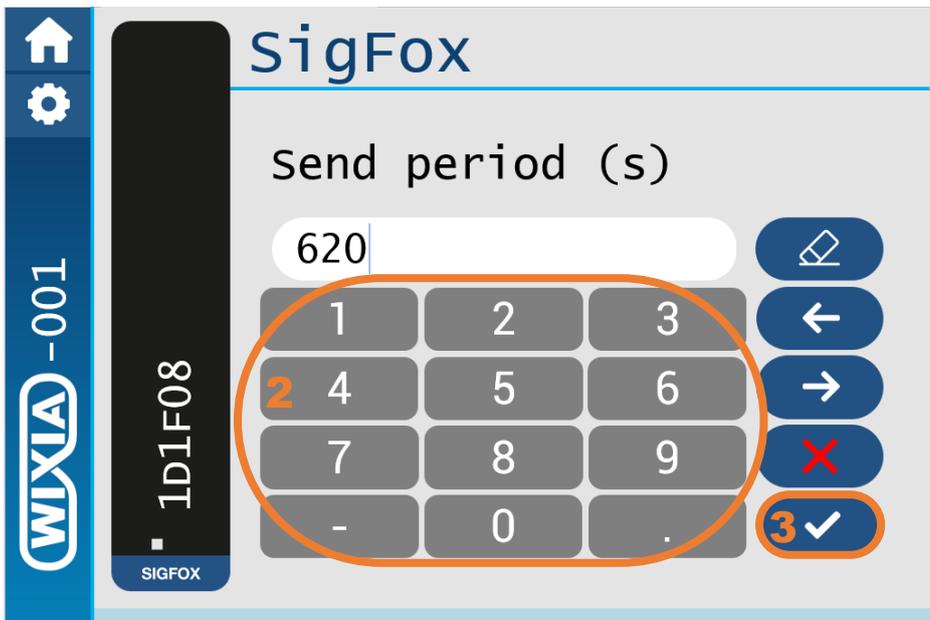
HOW TO SET SENDING PERIOD

1- Click on the automatic send button.



2- Enter the desired value with the keyboard.

3- Click on the validation button

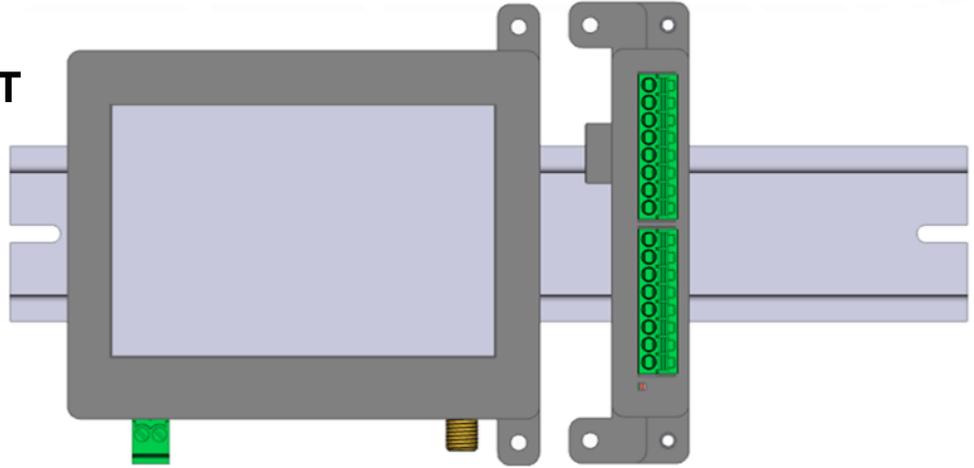


To change the previously configured sending period, simply click on the white input box that indicates the time.

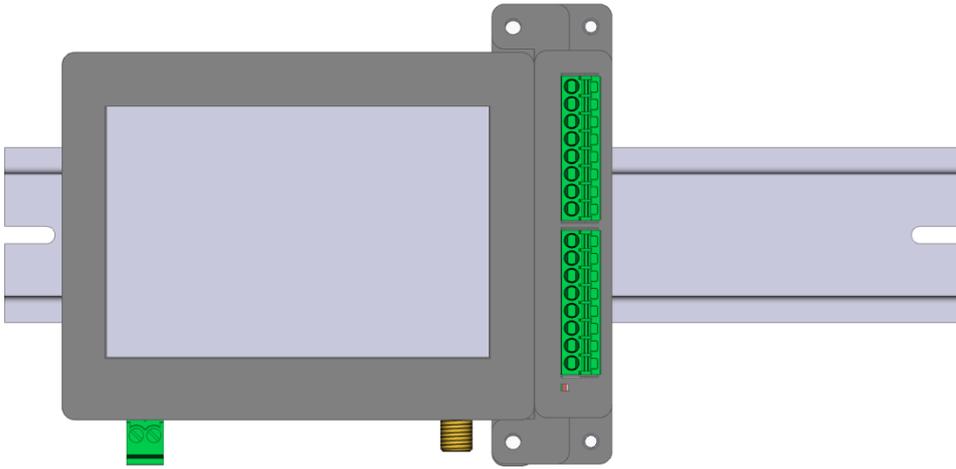
To deactivate automatic sending, click again on the button (1)

HOW TO MOUNT

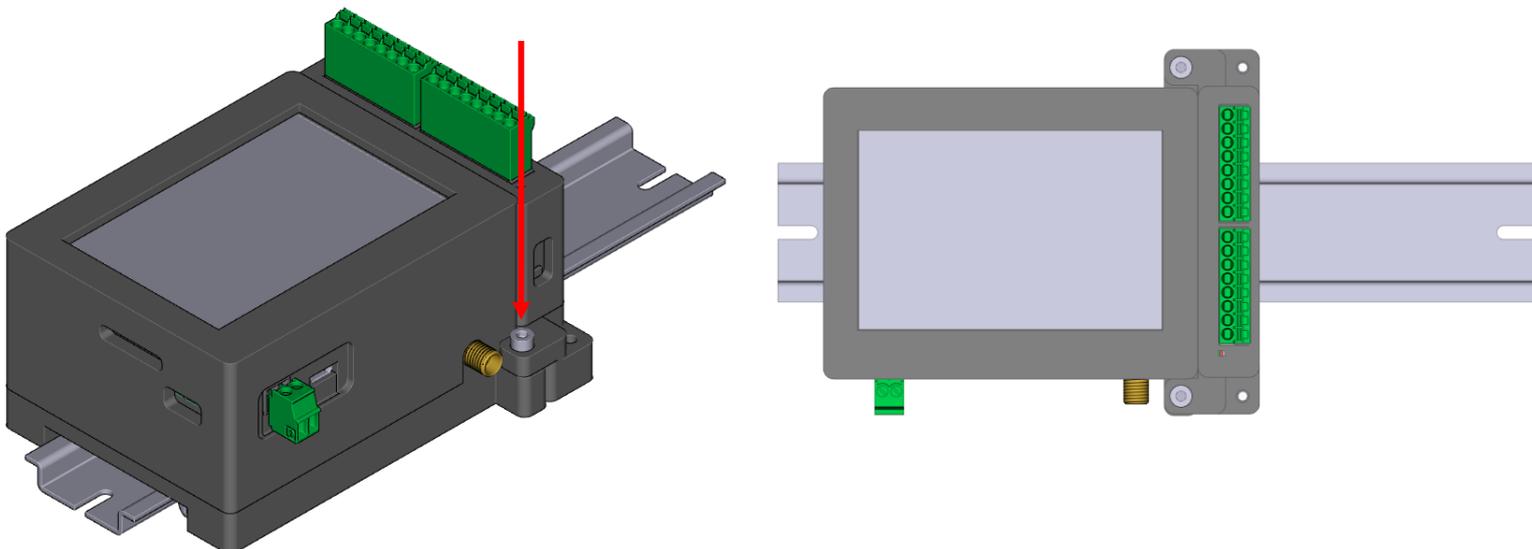
1- Simply clip the module onto the DIN-35 rail.



2- Slide the module to the left to connect it to the Wixia-Controller or to another module.

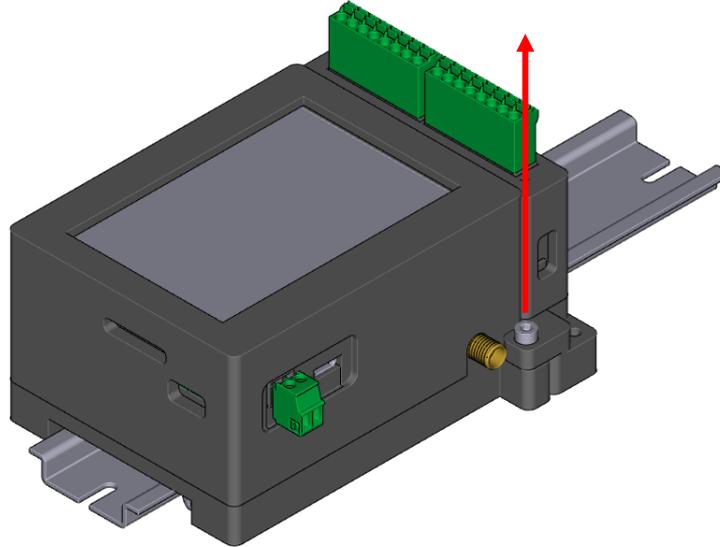


3- Fix the modules together using two M3x16 screws.

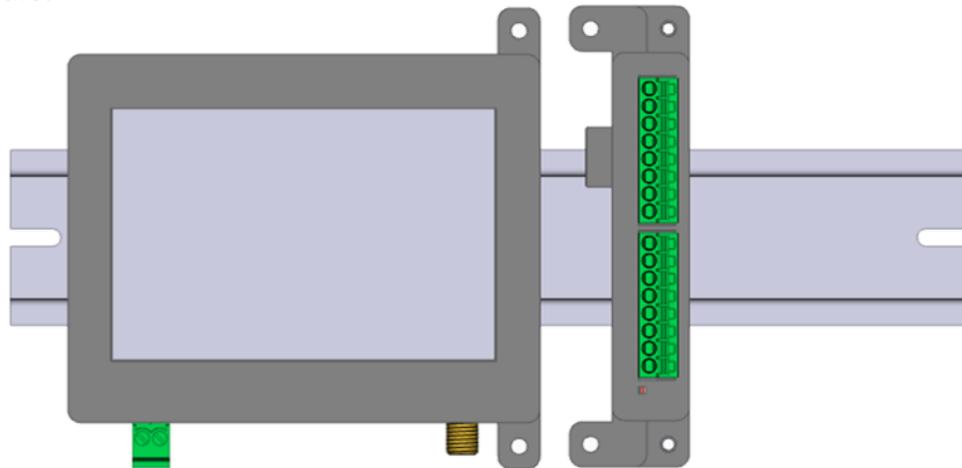


HOW TO UNMOUNT

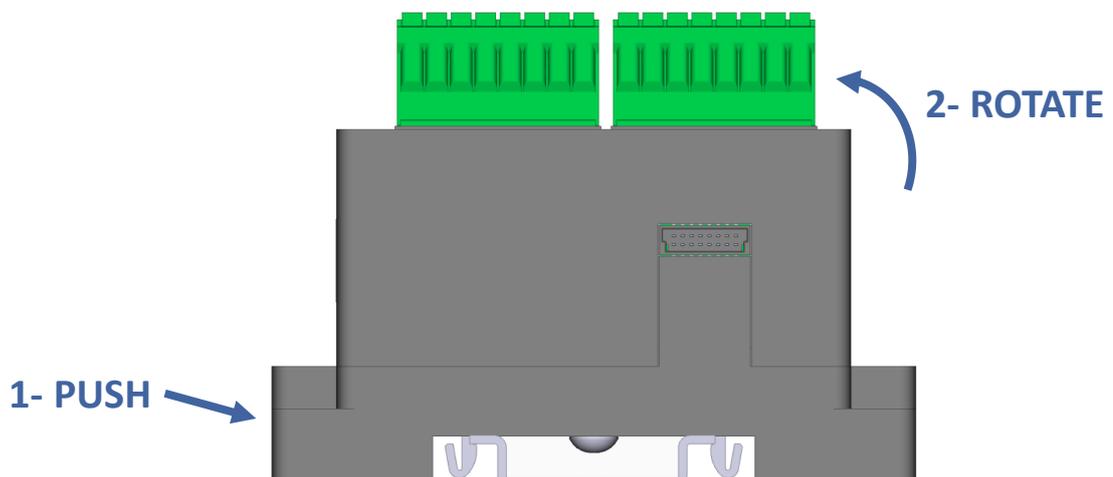
1- Remove the fixing screws that hold the module together with the other modules



2- Slide the module to the right so that it is no longer connected to the Wixia-Controller or to another module.



3- Slide the module to the right and push the module on the bottom while rotating the opposite angle to unmount it from the DIN-35 rail.



HAZARDS AND WARNINGS

Manufacturer is not responsible for user's failure to comply with the instructions contained in this manual.

Any service performed on this product must be completed by a qualified individual. Replacement of this product must be performed by a qualified individual.

Failure to use this equipment in accordance with the specifications in this documentation could lead to a hazard.

No parts in this device should be replaced or removed.

Disconnect all power supplies before servicing the equipment.

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