

1) How to connect to the Node's webpage via Mobile

- First step is to scan the **WiFi** networks from your mobile.
- The WiFi network of the Node has a formatted **Hostname** constructed by 2 strings. In our example:
Node-name: IE
Node-ID: 289493658445202
- Connect to it , without using a password.
- When you are connected the webpage will appear as auto-popup. (Captive Portal)

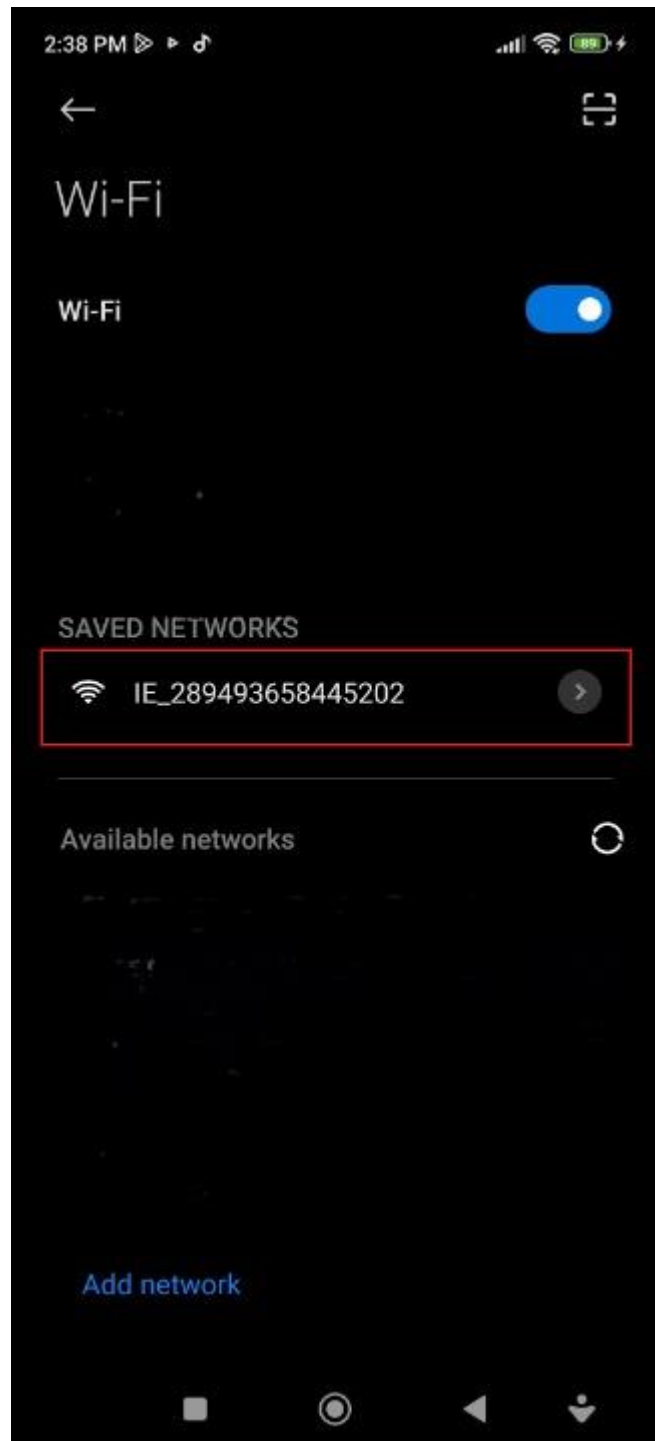


Figure 1: All Networks

Here it shows that you're correctly connected!

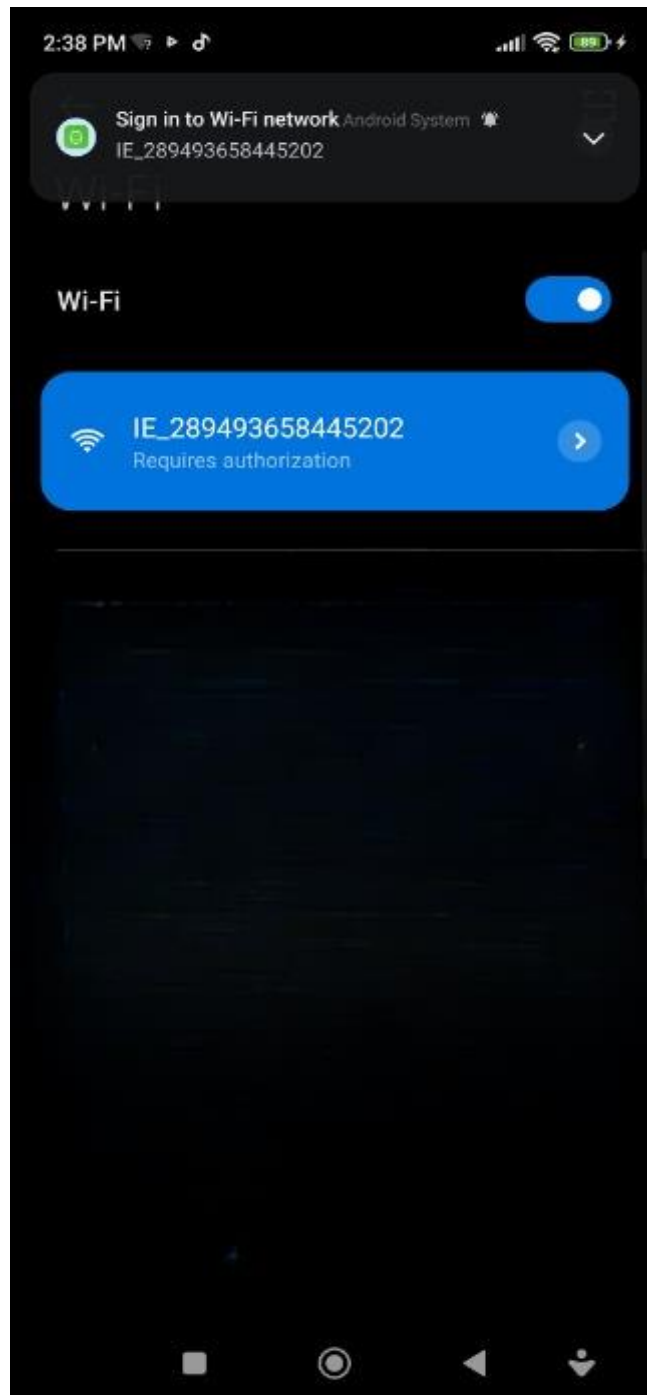


Figure 2: Correctly connected to the Node

Here is the Webpage connected by auto-popup method.

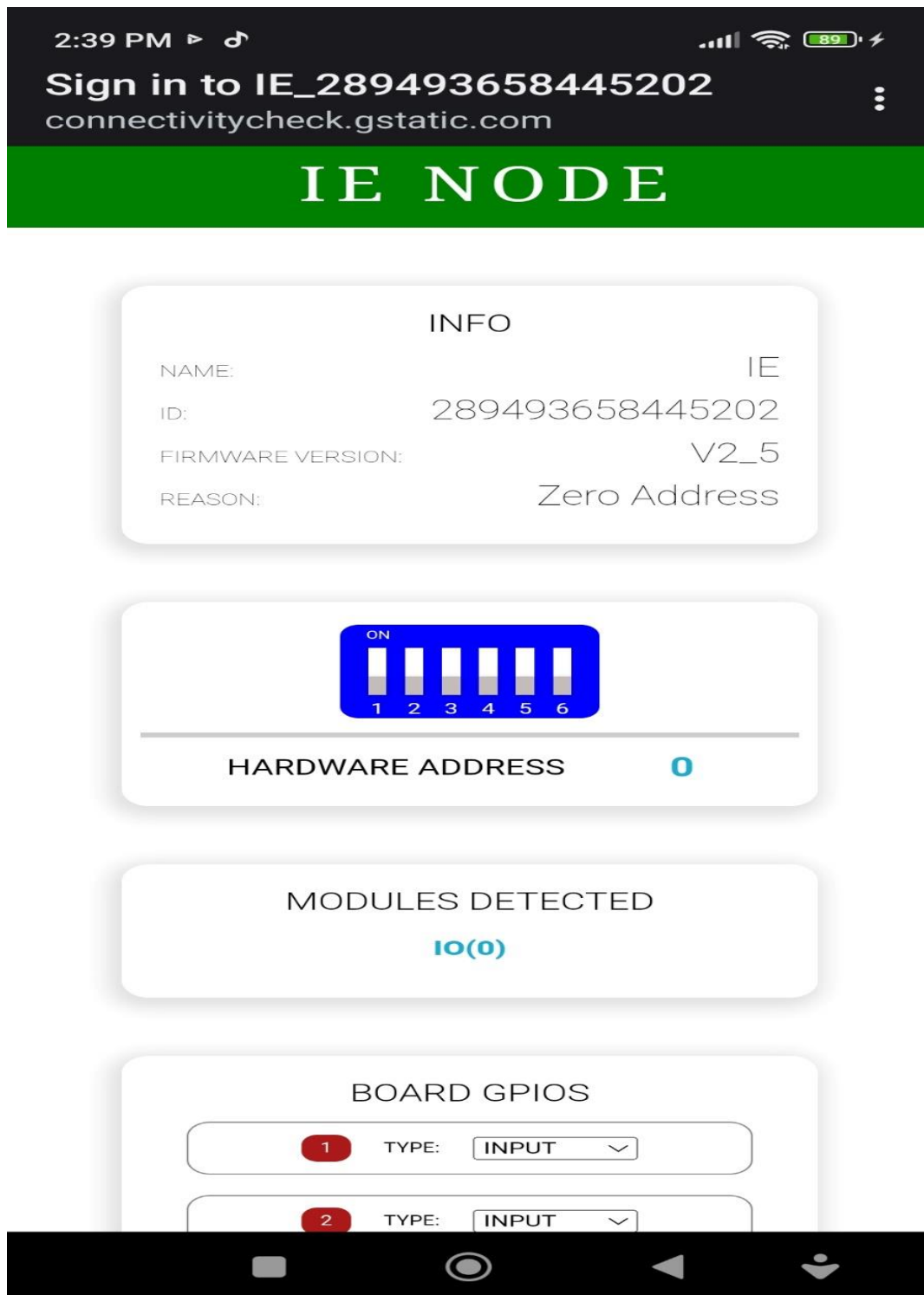


Figure 3: Webpage connected by Auto-Popup method

- IF the Popup function **won't work**. We will try to connect **manually** with a Browser (Google Chrome, Mozilla Firefox, Microsoft Edge) from your mobile.
- Type in the URL:
<http://192.168.4.1>
- And the webpage will be prompted!

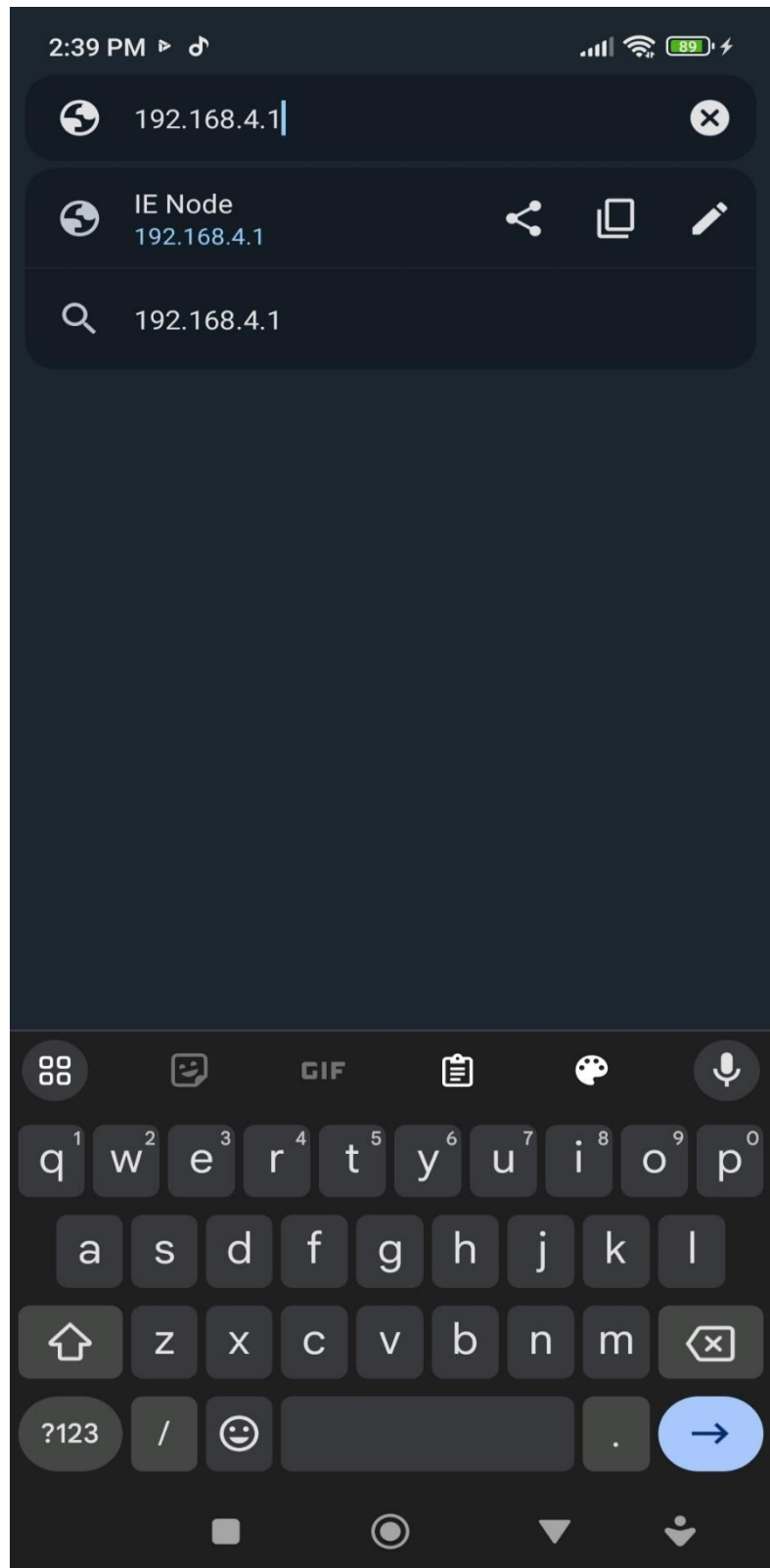


Figure 4: Manually typing URL

Here is the Webpage connected by manual method, typing directly the IP address.

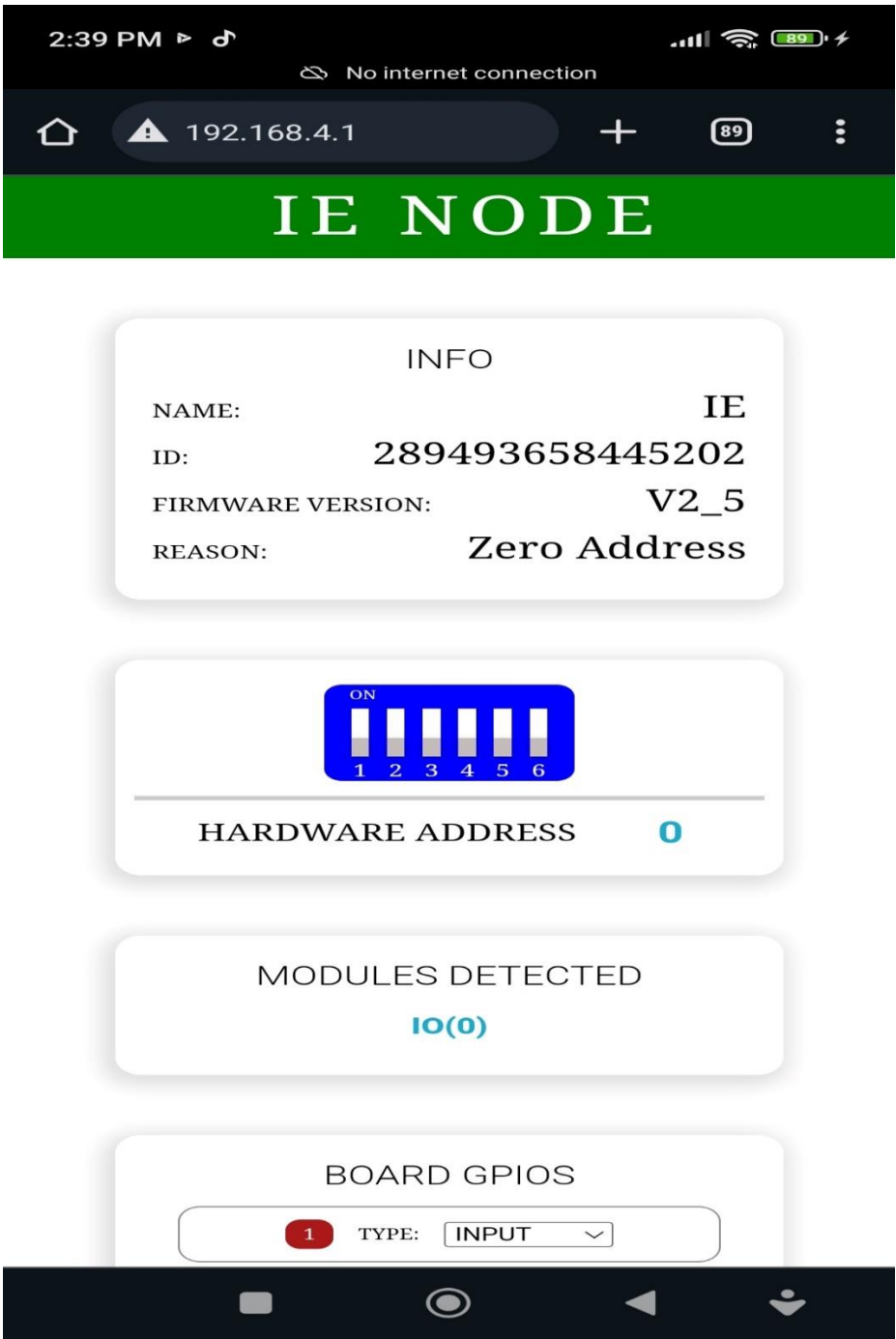


Figure 5: Manually finding the Node’s Webpage via URL

2) How to open the Ledstrips of the Node with specific colors (Without using LS-Controller)

1. Choose the GPIO that you want to set the Color.
2. For **GPIO:2**, select in the Dropdown: **LEDSTRIP**.
3. Insert the LEDS you want to open, default is 60.
4. Choose the color that you want, default is red.
5. Press **SET** and the color will open on the number of LEDs you have set!

The image shows a web interface titled "BOARD GPIOS" with a list of 8 GPIO pins. Each pin has a "TYPE" dropdown menu. GPIO 2 is highlighted with a green box, and its dropdown menu is open, showing "LEDSTRIP" selected. The "LEDSTRIP" option is highlighted in blue. The "SET" button is also highlighted with a green box. The "LEDSTRIP" option is highlighted in blue.

GPIO	TYPE
1	LEDSTRIP
2	LEDSTRIP
3	INPUT
4	INPUT
5	INPUT
6	INPUT
7	INPUT
8	INPUT

Figure 6: Open Ledstrip general Instructions

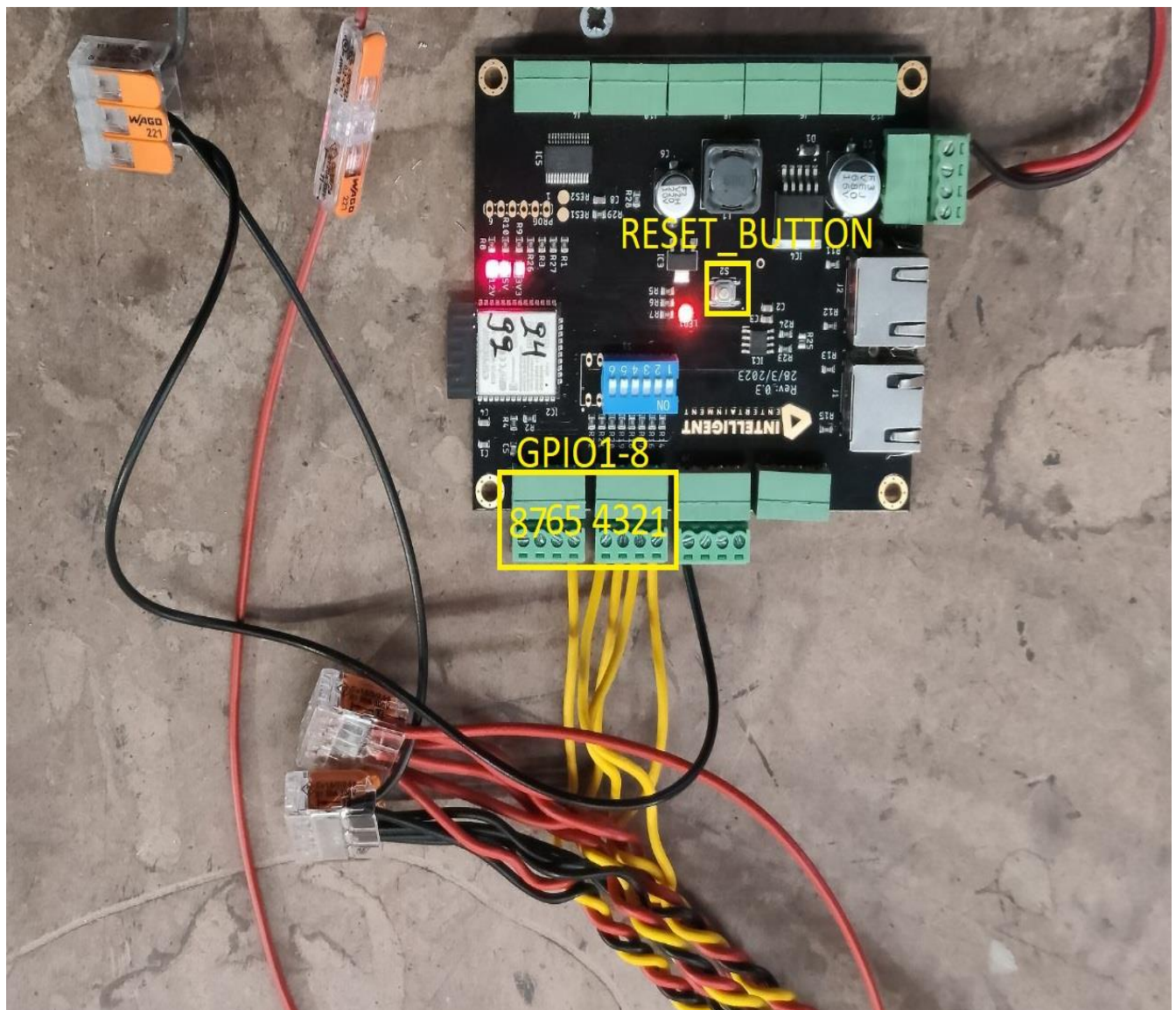


Figure 7: Hardware diagram showing the LEDSTRIPS that connect to GPIO1-8, without using LS-Controller

3) How to open the **Ledstrips** of the Node with specific colors (**with LS-Controller**)

Step 1

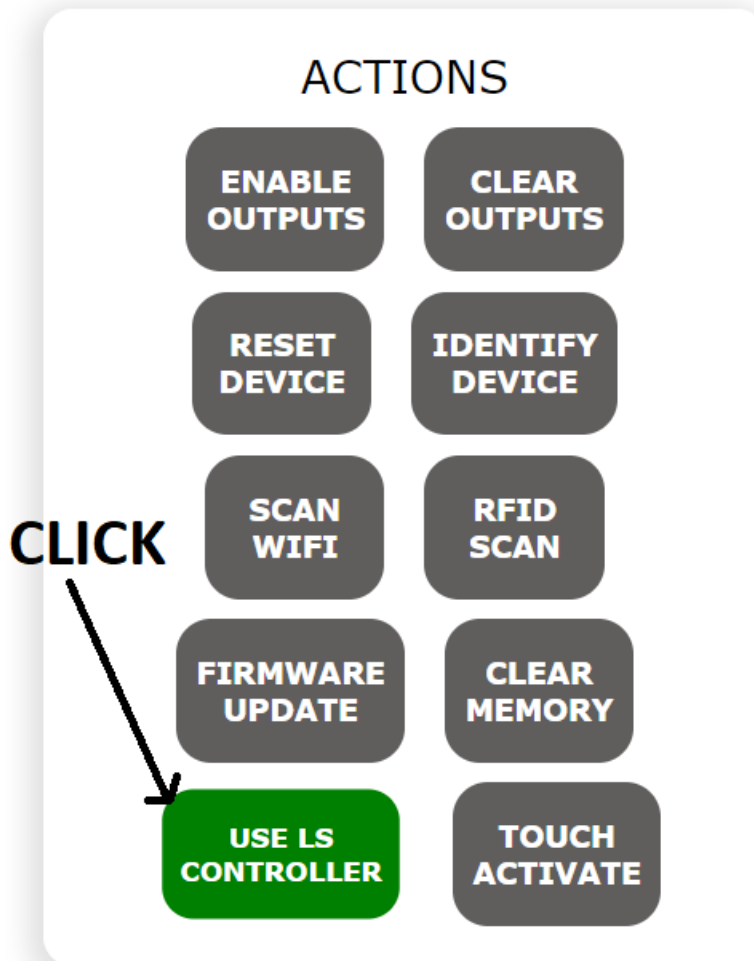


Figure 8: Click 'USE LS CONTROLLER'

Step 2

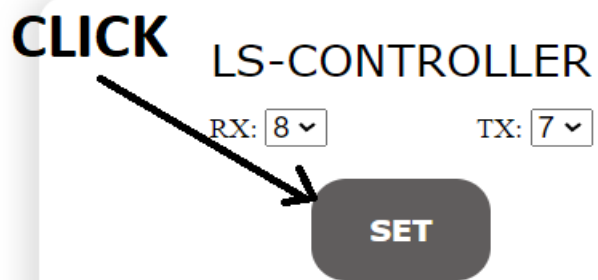
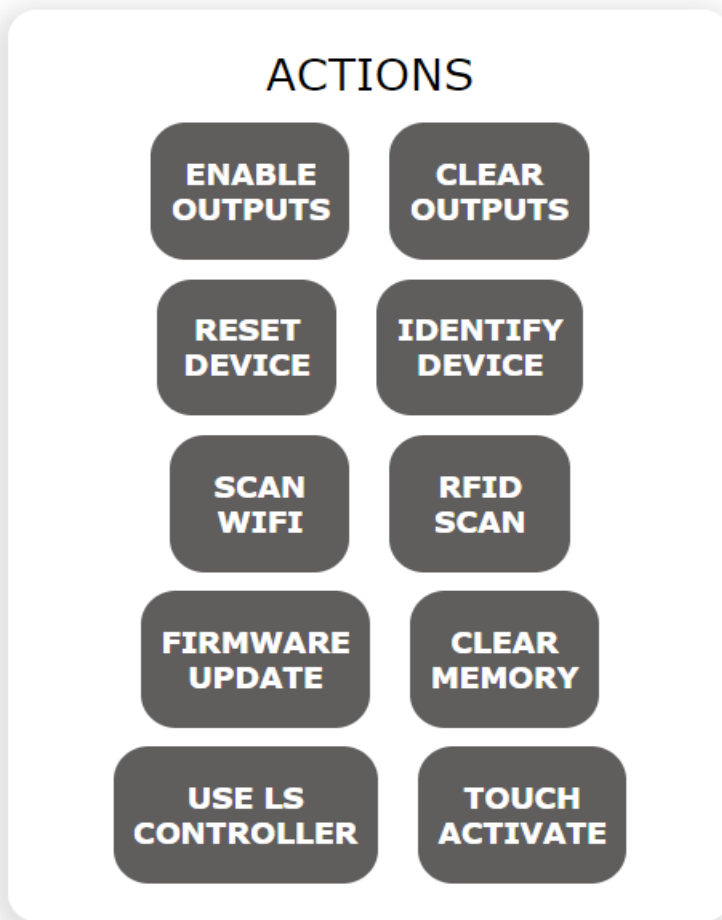


Figure 9: Click 'SET', RX is always 8 and TX is always 7

WARNING! Step 1 and Step 2 only needed ONCE!

Step 3

[CLICK HERE: Follow <Open Ledstrip general Instructions in Figure 6>](#)

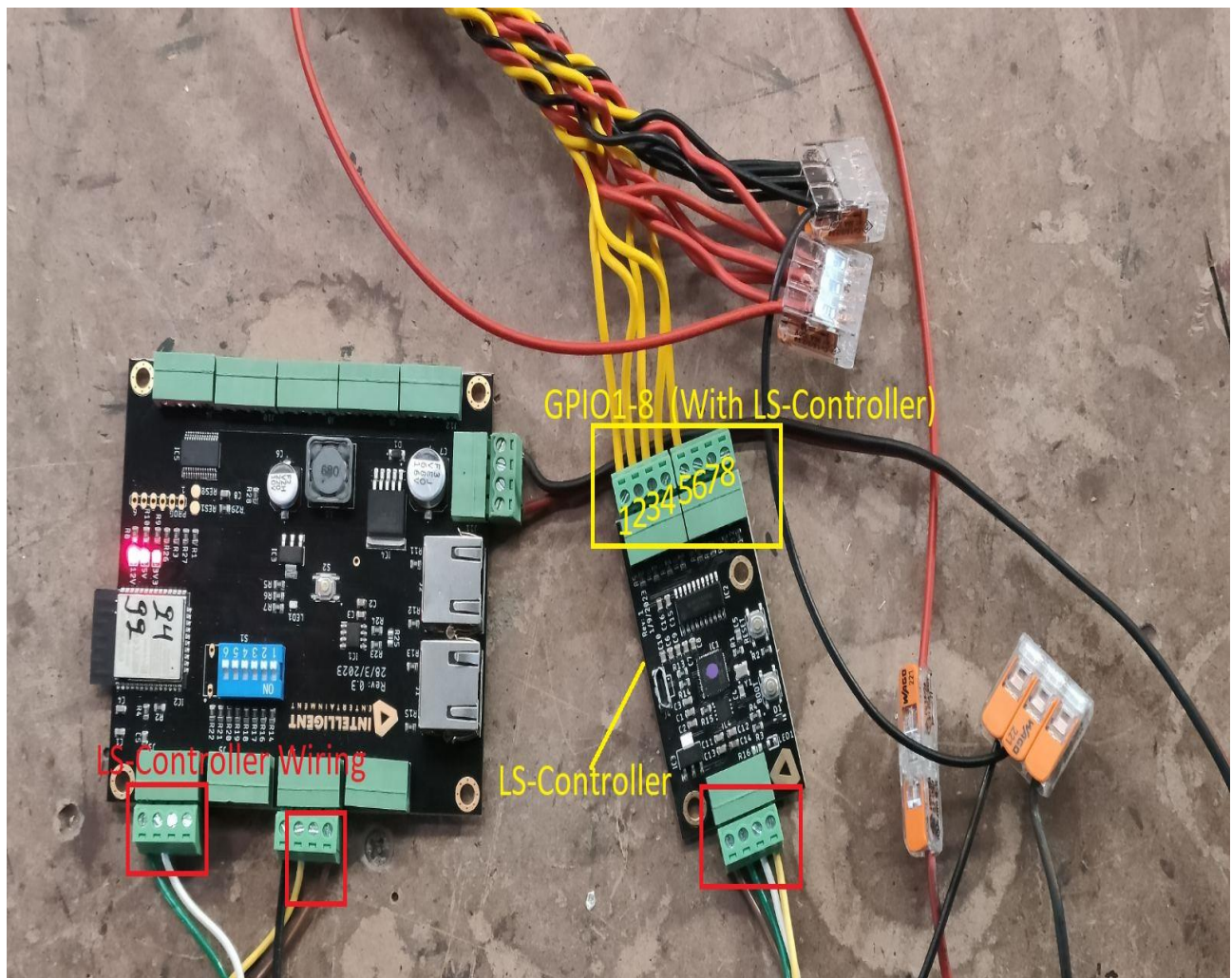


Figure 10: Connect the LEDSTRIPS to LS-Controller (GPIO1-8) now changed wiring position!

4) How to check the **RFID-Scanners** of the Node

Step 1

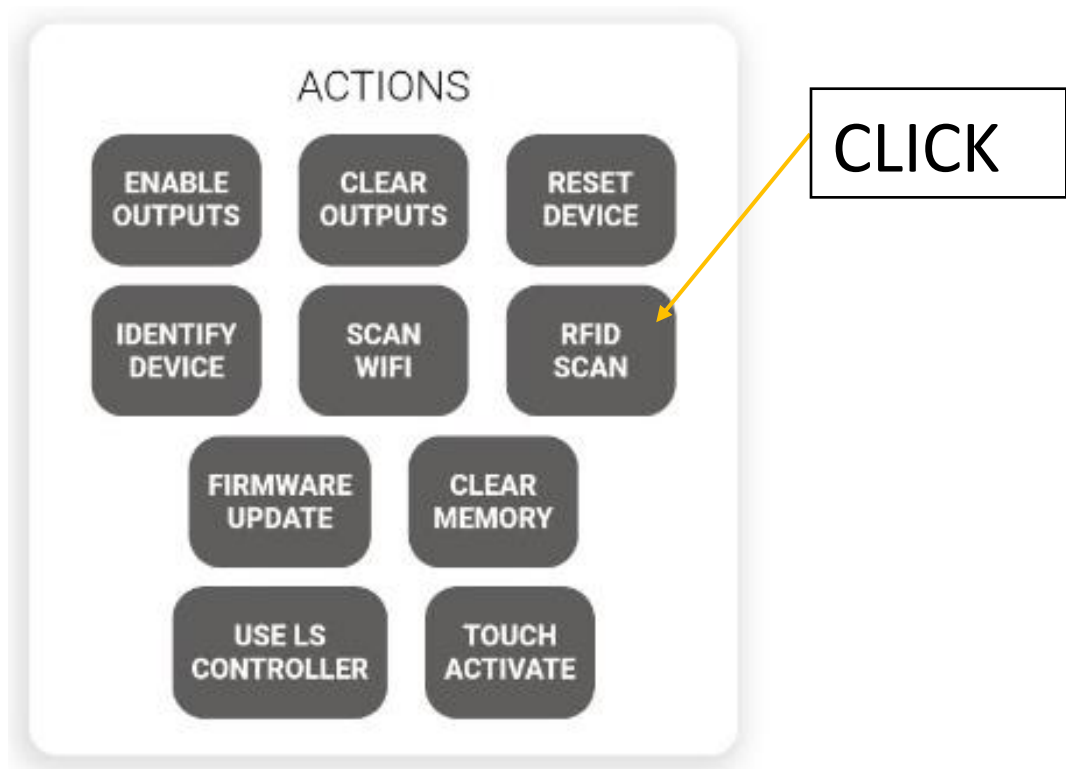


Figure 10: Click 'RFID SCAN'

Step 2

1. Select “OBJECT-DETECTOR”
2. Click SET on each READER
3. “RX” indicates the input where the READER is connected to the node. IN our example the READER #1, #2 and #3 are connected to inputs 1, 2 and 3, respectively
4. Now you are ready to scan your RFIDs to the READERS
5. When the RFID is scanned to the READER the ID changes from 0 to a seven digit number

The screenshot shows a web interface titled "RFID-READERS". At the top, there is a dropdown menu with "OBJECT-DETECTOR" selected. Below this, there are three sections for "READER #1", "READER #2", and "READER #3". Each section contains an "RX" dropdown menu and a green "SET" button. For READER #1, the RX is set to "1" and the ID is "7944486". For READER #2, the RX is set to "2" and the ID is "0". For READER #3, the RX is set to "3" and the ID is "0". Red boxes highlight the "OBJECT-DETECTOR" dropdown, the "SET" buttons for all three readers, and the ID field for READER #1.

Reader	RX	SET	ID
READER #1	1	SET	7944486
READER #2	2	SET	0
READER #3	3	SET	0

5) General instructions

- If you setup to use LS-Controller , and you want to revert it back , to not use it anymore , you need to RESTART the Node by pressing (RESET DEVICE) from the webpage , or manually by the RESET-BUTTON on the PCB.

