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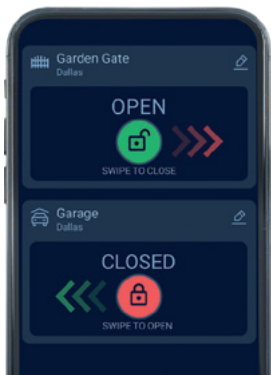


SMART GATE OPENER

QUICK GUIDE

works with | 

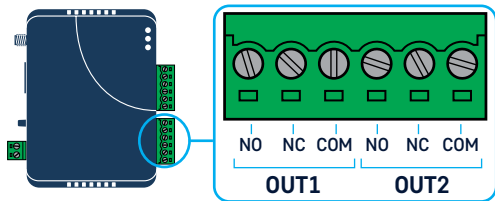
 works with
Google Home



1 Output settings

Connecting outputs to the motor control board

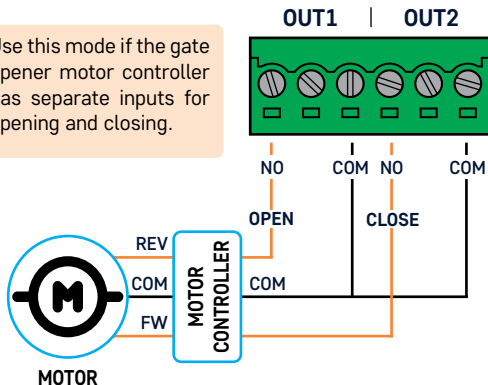
The OUT1 and OUT2 outputs have three terminals. In idle state, there is an open dry contact between the NO and COM terminals, and a closed dry contact between the NC and COM terminals.



1. DUAL-OUTPUT control mode

(configurable in the device settings in the app)

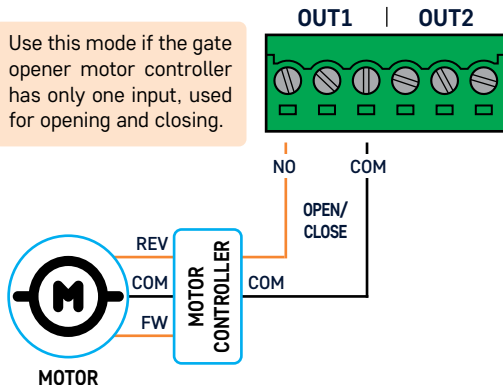
Use this mode if the gate opener motor controller has separate inputs for opening and closing.



2. SINGLE-OUTPUT control mode

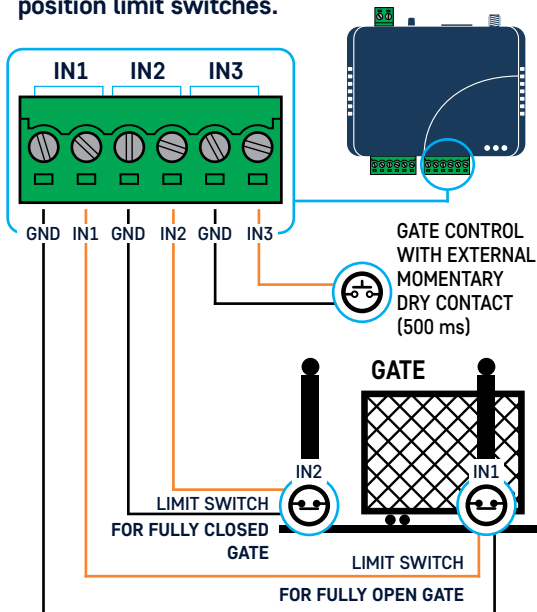
(configurable in the app device settings)

Use this mode if the gate opener motor controller has only one input, used for opening and closing.



2 Connecting limit switches

Inputs IN1 and IN2 are used to connect position limit switches.



- Connect the position limit switch that indicates the **fully open state** of the gate to input IN1.
- Connect the position limit switch that indicates the **fully closed state** of the gate to input IN2.
- The device automatically detects the state change of the connected limit switches and manages the end positions accordingly. **If you do not want to use a limit switch, do not connect inputs IN1 and IN2.**
- The device can manage either one or two limit switches.

You can configure the default state of the limit switches in the device settings in the app, based on the table below:

LIMIT SWITCH	DEFAULT STATE	ACTIVE
„NC” option	CLOSED contact (short circuit between the input and GND)	OPEN contact
„NO” option	OPEN contact (disconnection between the input and GND)	CLOSED contact

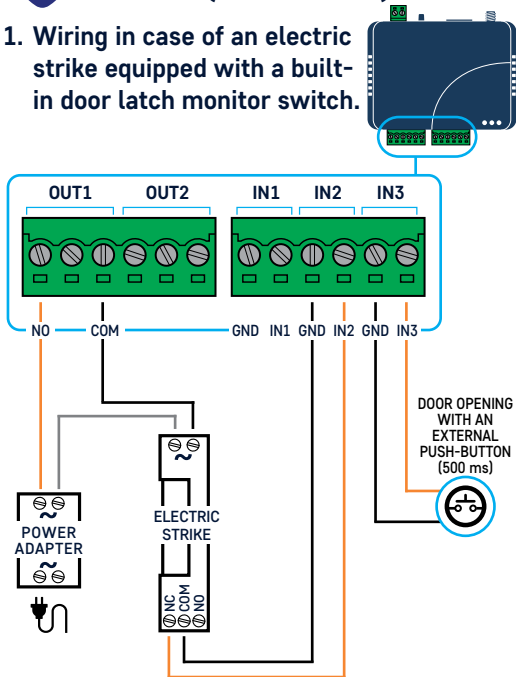
Gate state displayed in the mobile application:

GATE STATE	IN1	IN2
CLOSED	DEFAULT	ACTIVE
OPEN	ACTIVE	DEFAULT
INTERMEDIATE (opening/closing in progress)	DEFAULT	DEFAULT

3

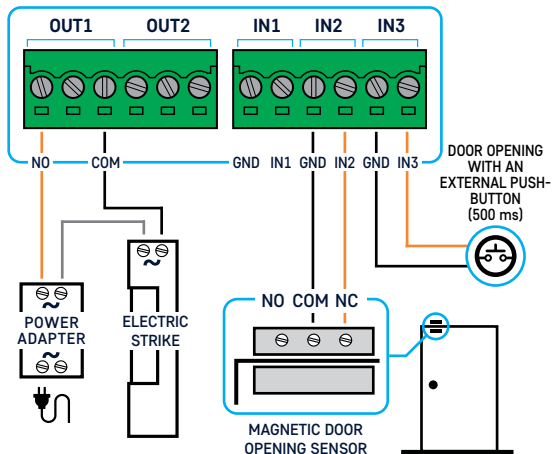
Controlling an electric strike (door lock)

1. Wiring in case of an electric strike equipped with a built-in door latch monitor switch.



2. Wiring in case of a simple electric strike with no door latch monitor switch.

If the electric strike is not equipped with a built-in microswitch, you can use a magnetic door opening sensor with NC/COM outputs instead.



Setting the operating mode

If the app displays the gate's open/closed status incorrectly (e.g., showing closed when it is open, or vice versa), set the limit switch setting to the "NC" option.

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Power supply and antenna

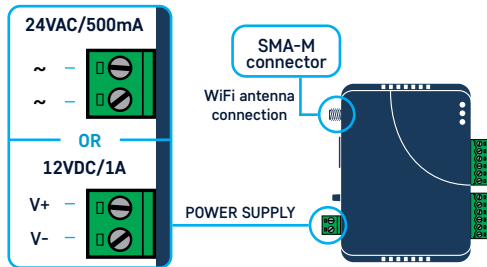
24 VAC/12 VDC and SMA-M connector

Power supply

Use a power source capable of providing a stable, transient-free voltage that meets the required voltage and supports the the maximum current consumption of the device. These are **500mA@24VAC** and **1A@12VDC**.

WiFi antenna

Attach the WiFi antenna to the SMA-M connector. The antenna included in the package ensures good transmission under normal reception conditions. If there are signal strength issues, use a higher-gain antenna or find a more advantageous location for the device.



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Downloading the mobile app

For iOS and Android devices



T.E.L.L. Software Hungaria Kft. declares that the radio equipment type OPEN.ioting is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: <https://www.tell.hu/en/downloads>



6 Device registration

You can register your gate opener device in the mobile application. There are two different registration processes depending on how the device is connected to the network. If you have connected the device using the Ethernet port, follow the steps specified in section 6.1. In case you want to connect it using WiFi, please proceed as described in section 6.2.

6.1. Device connected via Ethernet

NOTE: Device registration requires Internet connection, so make sure that the network to which your device is connected via the Ethernet port enables it to access the Internet. For proper operation, it is essential that the device receives an IP address from a DHCP server on the network. Once this is successful, the IP LED will light up green. Please do not start the device registration process from the mobile app until that happens. For a successful registration, the mobile phone also must be connected to the Internet, and it is important to be connected to a WiFi network that can access the same local network where the device is connected.

If the above conditions are met, you can start the registration process from the mobile app. The app will guide you through the process, please follow the instructions there.

6.2. Device connected via WiFi



NOTE: Device registration requires Internet connection, so make sure that the WiFi network where you want to connect the device enables the device to access the Internet. For proper operation, it is essential that the device receives an IP address from a DHCP server on the network as soon as it connects to WiFi. For a successful registration, the mobile phone also must be connected to the Internet, and it is important to be connected to the same WiFi network where you want to connect the device.

You can start setting up your device's WiFi connection by pressing the WS button on the device. The first step of the WiFi-based installation is to press the WS button, and then wait for the IP LED to start pulsing green. If the device has not been registered yet, it is sufficient to press the WS button once briefly. For an already registered device, the WS button must be pressed and held for at least 5 seconds. The application will guide you through the installation process, please follow the instructions there.

7 Configuring the limit switches and the control mode

Limit switch setting

- If the limit switches connected to the IN1 and IN2 inputs are normally closed (NC), i.e., they provide an open dry contact when the gate is fully open or fully closed, select the NC mode in the device settings in the mobile app.
- If the limit switches connected to the IN1 and IN2 inputs are normally open (NO), i.e., they provide a closed dry contact when the gate is fully open or fully closed, select the NO mode in the device settings in the mobile app.
- The device detects the gate position limit switches connected to inputs IN1 and IN2 automatically. If the limit switches are connected, the mobile application will display the open, closed, and intermediate status of the gate (if both IN1 and IN2 are connected) – i.e., when the gate is opening or closing:



Open



Closed

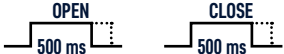


Intermediate state

Setting the output control mode

- **DUAL-OUTPUT control mode:** If the motor controller has two separate control inputs for opening and closing, select the dual-output option in the device settings in the mobile app. In this control mode, output OUT1 provides the momentary control contact for opening, and output OUT2 provides the momentary control contact for closing.
- **SINGLE-OUTPUT control mode:** If the motor controller has only one control input for opening and closing, select the single-output option in the device settings in the mobile app. In this control mode, output OUT1 provides the momentary control contact for both opening and closing, while output OUT2 remains activated at the same time on each control command for the time that can be set in the mobile application. Output OUT2 can be used for motor controllers that require a longer control signal to open/hold open, but it can also be suitable to control gate lighting.

Operation of control modes

CONTROL MODE	OUT1	OUT2	IN3 – GATE CONTROL INPUT (NO)
Dual output			
Single output		 <i>Can be configured in the mobile app</i>	

* The device gives a momentary closed dry contact on output OUT1 on every control command. The figure illustrates a possible operation of a motor controller with “step-by-step” function.



Restoring the factory default settings

To reset a previously installed device to factory default, follow the steps below:

WARNING! Resetting the device to factory default will erase all previous settings, including the users assigned to the device, and the WiFi settings!

Step 1. Disconnect the power feed from the device.

Step 2. Press and hold the WS button.

Step 3. Turn on the device - connect the power feed.

NOTE: Hold the WS button pressed while you connect the power feed, and do not release the button yet

Step 4. Wait at least 5 seconds, and then release the WS button.

SAFETY INSTRUCTIONS

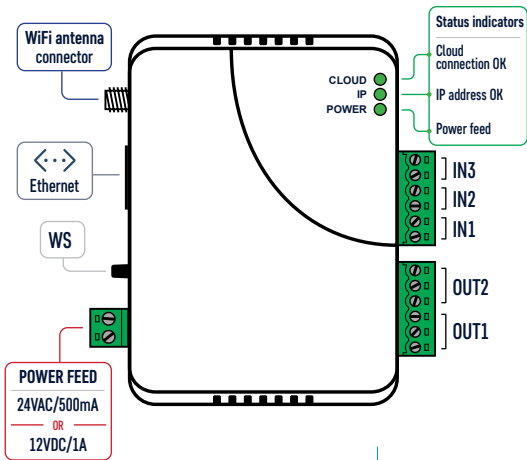
For your safety, please read carefully and follow the instructions below! Failure to observe safety instructions may be a threat to you and your environment!

TELL's product (hereinafter referred to as "device") has a built-in WiFi interface.

The device uses the following WiFi frequency band:

2.4 GHz, 802.11 b/g/n

- **DO NOT USE** the device in an environment where radio frequency radiation can cause a risk and may interfere with other devices that may cause undesired operation – such as medical devices!
- **DO NOT USE** the device if there is a risk of high humidity, hazardous chemicals, or other physical impact!
- **DO NOT USE** the device beyond the specified operating temperature range!
- **DO NOT MOUNT** the device in a hazardous environment!
- **DO NOT INSTALL/WIRE** the device under voltage. For easy disconnection, the device's power supply or the device used to cut the power feed (e.g., mains socket and plug) should be easily accessible!
- **ALWAYS DISCONNECT** the power feed before starting to mount the device!
- **TO SWITCH OFF** the device, disconnect the power source!
- **DO NOT ATTEMPT** to repair the device. Only qualified personnel is allowed to repair the device!
- **PROVIDE APPROPRIATE POWER SOURCE** for the device. The device operates safely and properly only with a power supply which meets the requirements specified in the Quick Guide. You can find the exact data in the Quick Guide and on the <https://www.openioting.com> website as well.
- **DO NOT USE** the device with a power supply that does not meet the MSZ EN 60950-21:2003 standard!
- **DO NOT REVERSE THE POLARITY** of the power supply! Wire the power supply always according to the polarity indicated on the device!



Power consumption: max.12.5W, Stby. <0.3W
Voltage range: 12...30VDC or 12...24VAC
Operating temperature (-25...+50°C),
IP rating: IP50, Suitable for indoor use.
Compliance: 2014/53/EU (RED), EN 55035:2017

Manufactured by: T.E.L.L. Software Hungaria Kft.,
H-4034 Debrecen, Vágóhíd u. 2., Hungary

More
information



openioting.com

