

Technical data sheet

# ACCESS



## **1Control ACCESS**

1Control ACCESS is an electronic device that allows to operate an opening automation, such as a gate, a garage, a pedestrian gate or an automatic barrier using smart access systems such as a smartphone, a smartwatch or a voice command. 1Control ACCESS offers management and access control functions that can be managed via a simple web interface.

1Control ACCESS is the perfect solution for companies, car parkings, condominiums, recycling centers, transport facilities and more generally for all those situations where it is necessary to manage the passage of people and vehicles through one or more accesses, guaranteeing practicality and safety.

## Strengths

- **Suitable for different types of automations**

Gates, swing gates, rolling shutters, pedestrian gates, automatic barriers etc.

- **Allows different access methods**

Android and iPhone smartphones, smartwatches, PC web interface, voice commands, phone calls

- **Access management and control**

You can easily manage and control accesses from the App or PC

- **Multiple connection methods**

Mobile data connection, Bluetooth LE

- **Online and also Offline**

Even in times of lack of Internet connectivity you can use it via Bluetooth or with the additional access methods (ex. remotes)

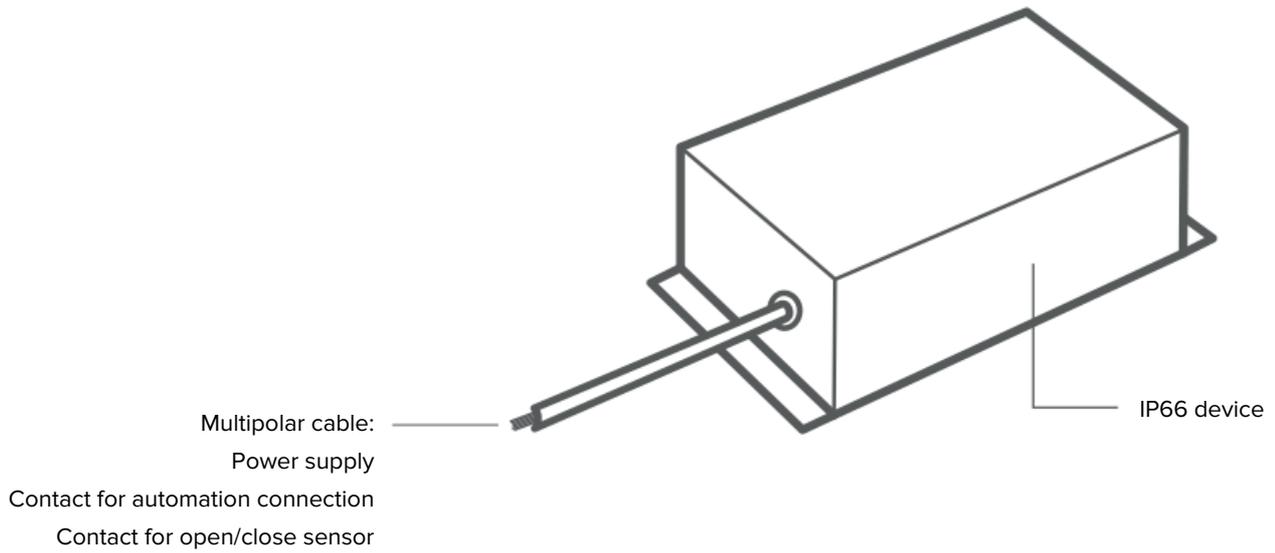
- **Weatherproof**

Can be placed outdoors, it's not afraid of cold and water. It is IP66 certified.

**Box contents**

	<b>Quantity</b>
1Control ACCESS device	1
<hr/>	
Flat open/close sensor, 3m cable	1
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Flat open/close sensor, magnet	1
<hr/>	
Single multipolar 3m cable for power supply, automation connection and open/close sensor	1
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## Device

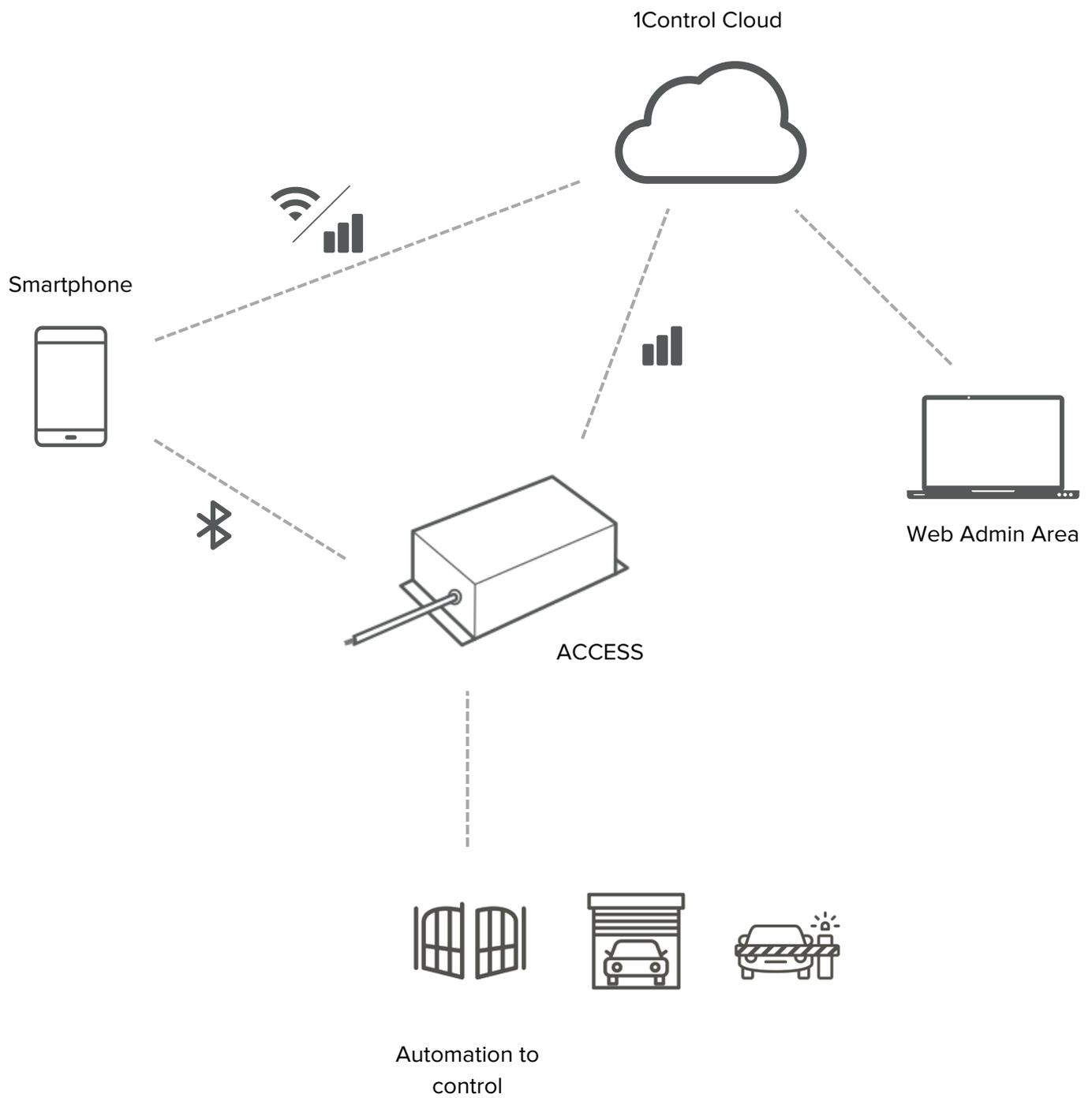


## Miscellaneous



Flat open/close sensor

## Connection diagram



 Data network

 WIFI network

 Bluetooth

## App



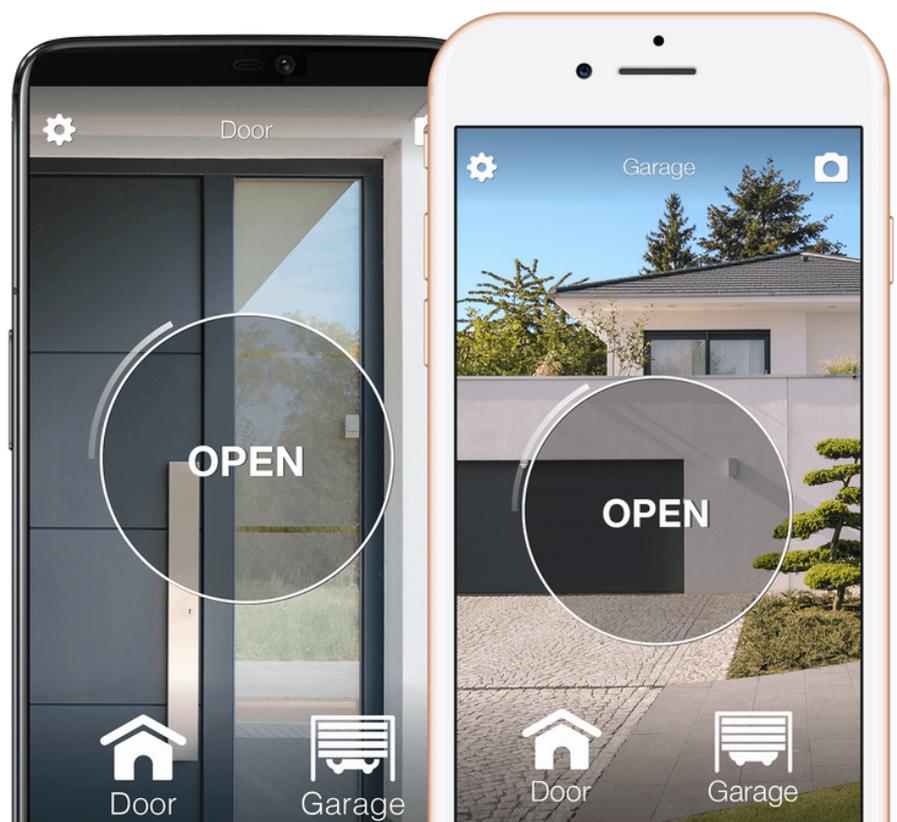
### 1Control

The 1Control ACCESS app is called "1Control", it is free and can be downloaded from the iPhone and Android Stores.

It is compatible with:

- iPhone 6 or newer smartphones with iOS 13 or higher
- Android 5.0 or newer smartphones with Bluetooth LE 4

The "1Control" app is used both to configure the device and to operate an automation via Internet connectivity or Bluetooth LE 4.



## Administrators and users

- **Administrators**

Has full control of the device, can configure it, operate it, delete other users.

The administrator is the one who connects to the device using the secret PIN code.

The figure of the administrator is designed exclusively for the person (or multiple) who need to install and configure the device.

1Control Access supports up to 30 admins. Once this number is reached, any person who logs in as an administrator (thus using the secret PIN code) overwrites a previously saved administrator.

- **User**

Can operate the device according to the limitations they have received.

User is the one who receives a share created through the web administrative area.

1Control Access supports up to a maximum of 1000 users.

## Web Admin Area

Users who will use the 1Control ACCESS device can be managed through the 1Control Web Administrative Area accessible at the address:

**[web.1control.eu](http://web.1control.eu)**

The first time you log in, you need to register using your email address and password. Then you need to connect your 1Control ACCESS to the newly registered user. More than one device can be connected to the same user.

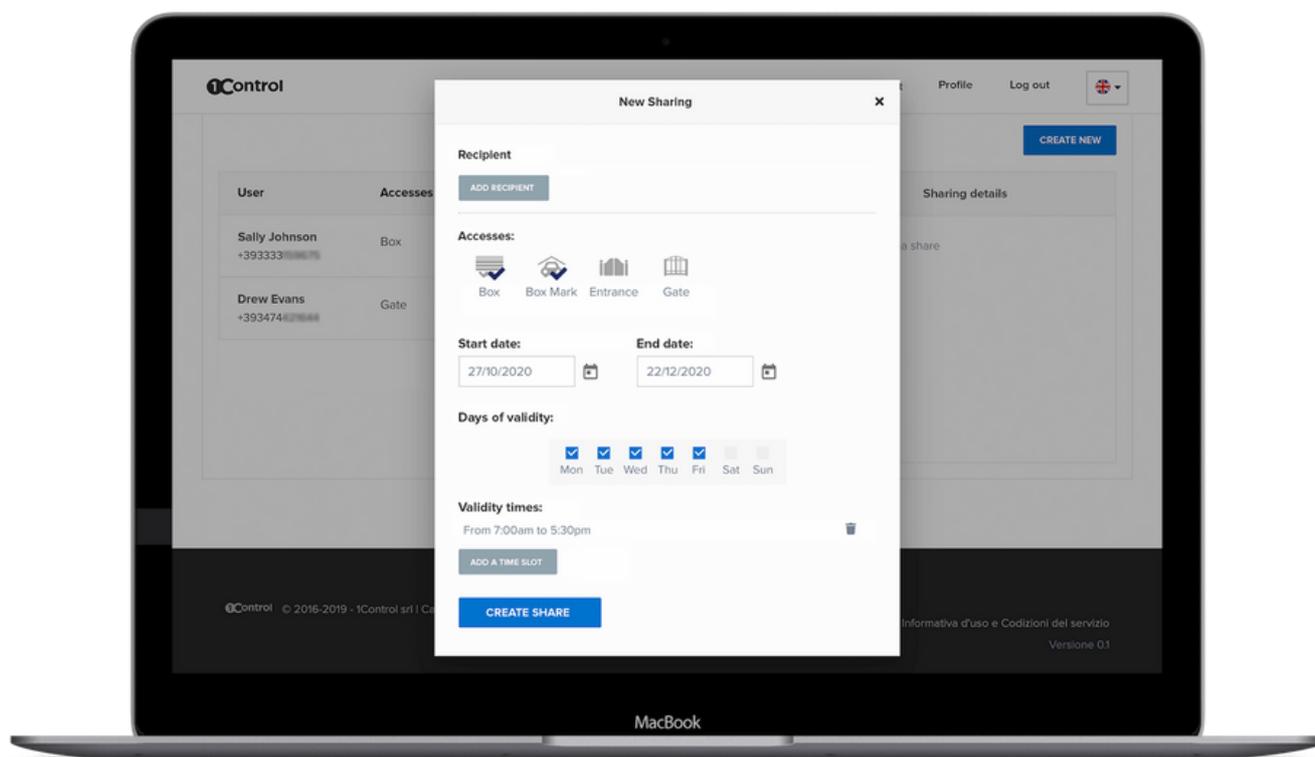
## Access management and control

From any PC or tablet, you can access your private area on the 1Control ACCESS Cloud Web Admin Area to manage and control access.

It is possible to manage the entry permits of employees, drivers, suppliers, customers, etc. by indicating which automations they can operate and with what time slots (days and hours). For example, it is possible to allow Mr. John Doe to enter through the main and secondary doors from February 15th to March 27th, only on Mondays and Wednesdays from 2.00pm to 5.00pm.

1Control ACCESS allows you to assign multiple access methods to the same user, such as the App and phone calls. All access methods are subject to the same limitations set on the user. If a user is granted entry only on Tuesday, the calls will only work on that day and not on the others.

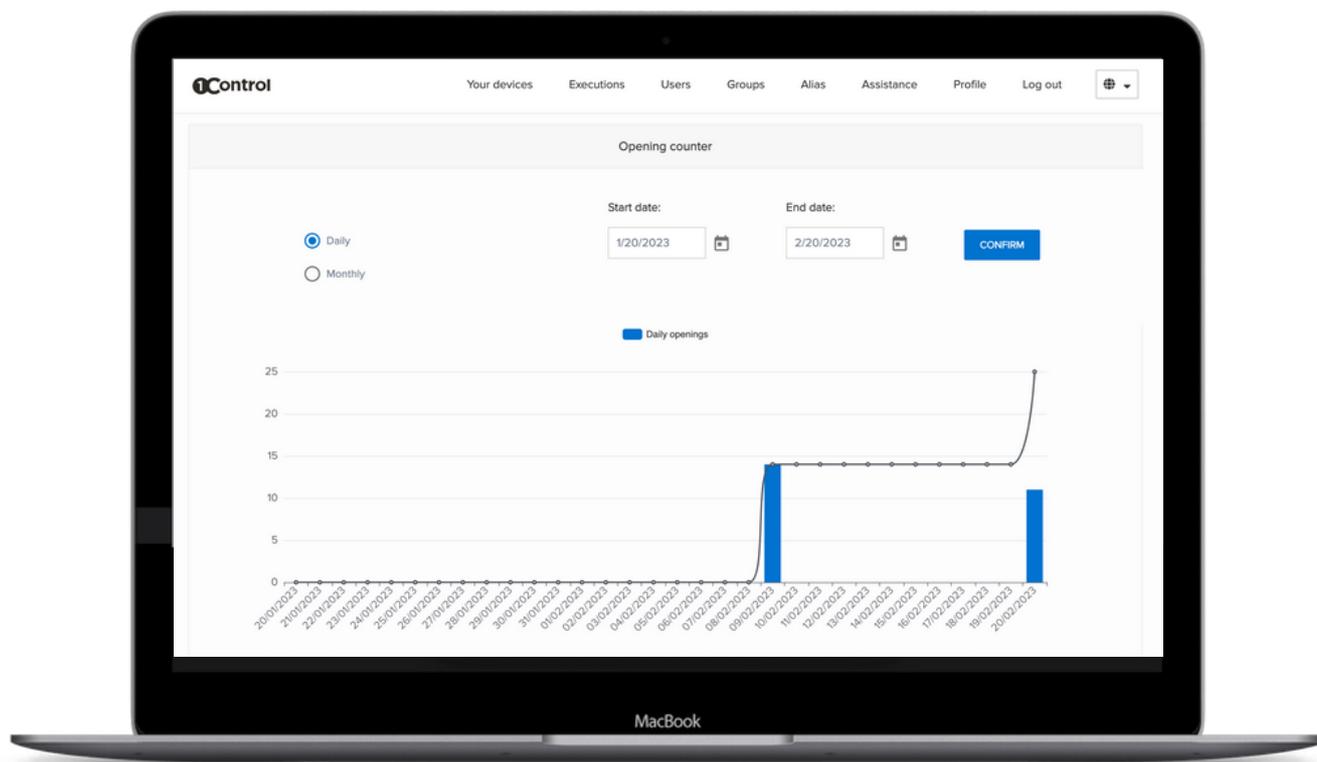
Users can also be managed in groups in order to speed up the assignment of permissions. For example “employee group”, “cleaning group” etc



## Automation usage statistics

From the Web Admin Area you can check the number of openings your automation has made. You can also check the history of openings divided by day or by month. The number of openings is tracked even if 1Control ACCESS is offline, because smartphone connectivity is used.

With this information you can easily program maintenance on an automation when a certain number of openings (or work cycles) is reached.



## Forced open

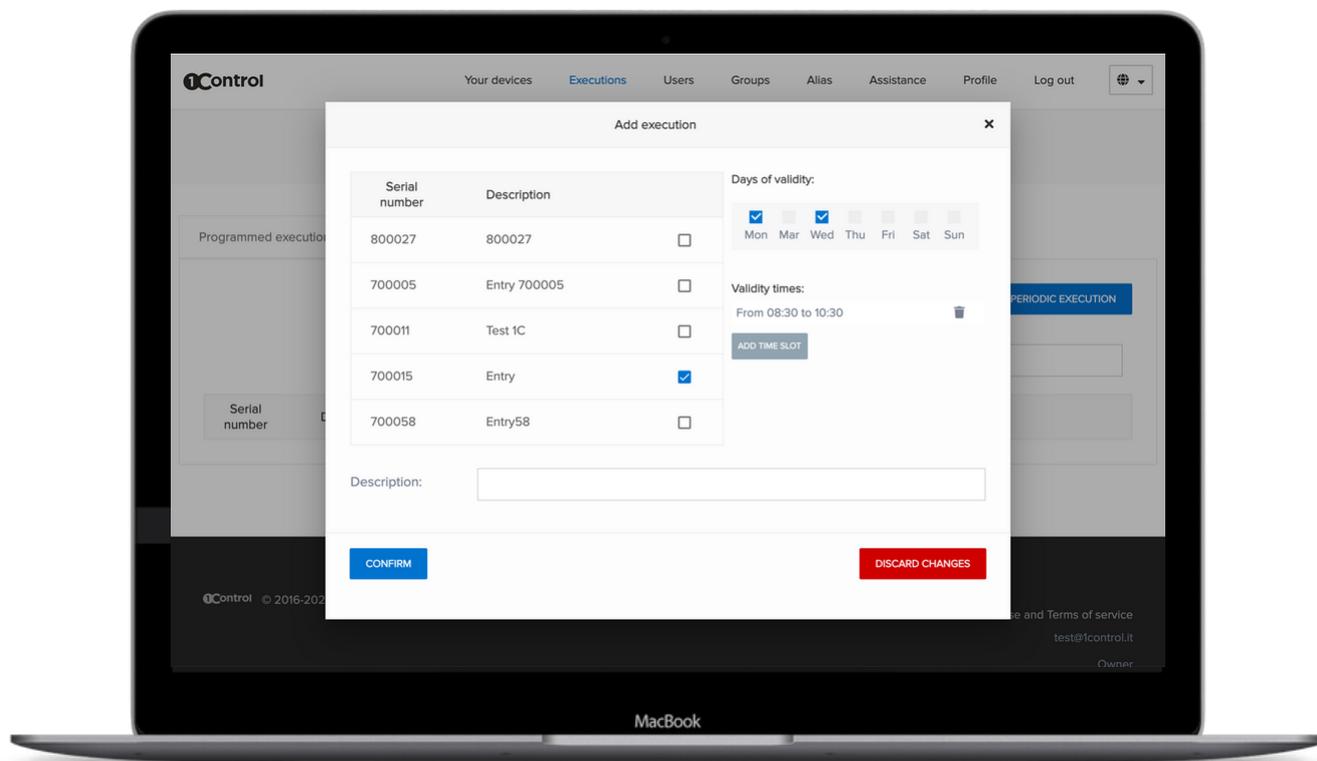
From the Web Admin Area, you can set the "forced open" mode which keeps the automation open until it is disabled. NB: Not all automations support this feature, check first in the manual of your automation if it is supported or if it can be activated.

## Scheduled and periodic automatisms

From the Web Administrative Area you can create automatisms that activate the automation at the specified date and time or periodically (e.g. every Tuesday from 2:00 to 3:30 pm).

This way you can allow access by leaving the automation open at certain times, such as when employees arrive at the company.

The automations use the "forced open" function.



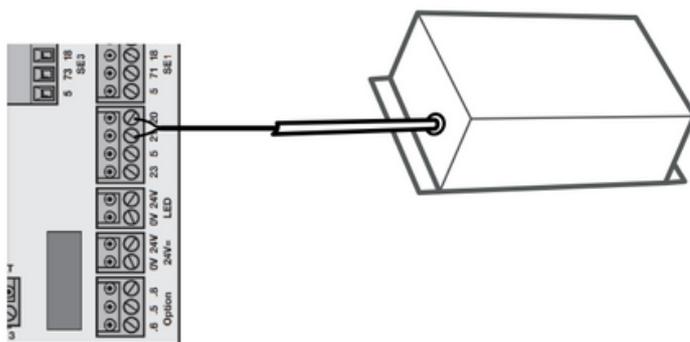
## Connection to automation

1Control ACCESS is equipped with a multi-core cable with the following connections: power supply, output contact and input contact.

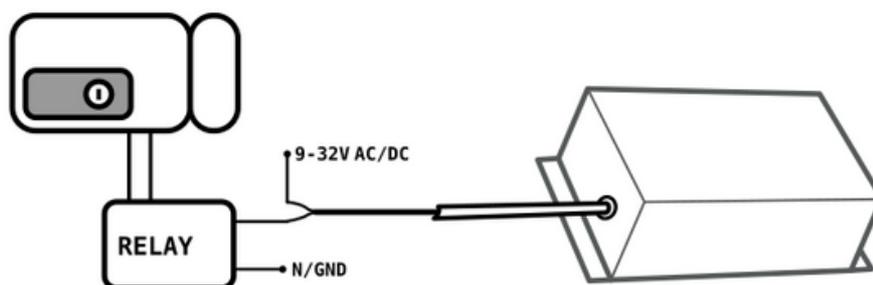
1Control ACCESS must be connected

- to the automation to be controlled using the BROWN and GREEN/YELLOW cables. A relay contact is provided on this cable. Normally it is necessary to connect it to the STEP-BY-STEP or START type input of the automation to be controlled, or in parallel to an existing opening button. The type of connection may vary depending on the brand and model of the automation, therefore it is advisable to check its manual for the best connection method. For connecting to an electric lock, an external relay must be added to prevent the load from damaging the ACCESS internal circuit.
  - to the automation open/close sensor using the WHITE and GREEN cables
- Example of connection to an activation contact of a gate control unit

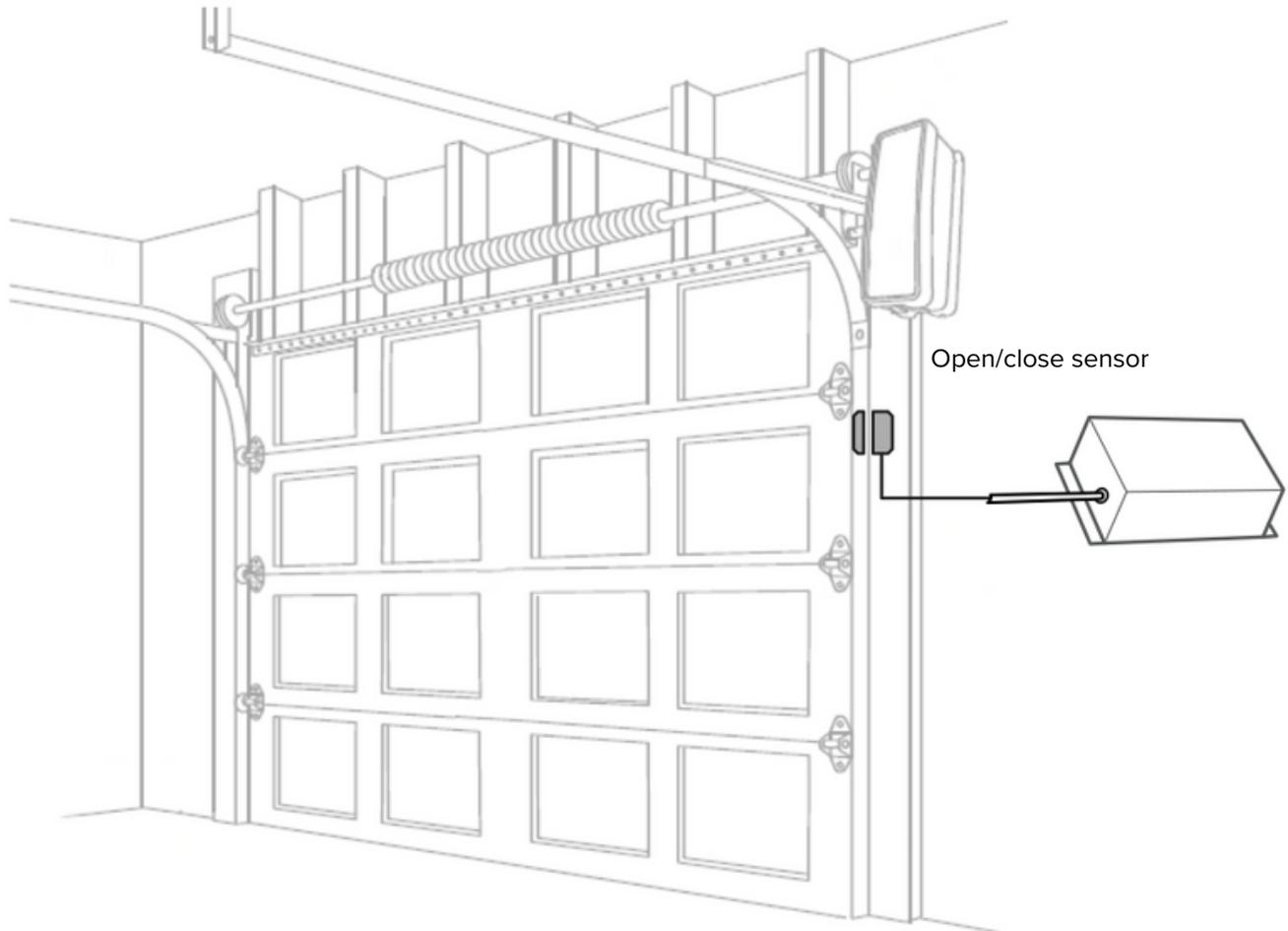
On the 1Control website you can find connection diagrams for the main automations on the market.



- Example of connection to an electric lock using a relay



The open/close sensor is required to detect the closed state of the automation. The open/close sensor must be applied to the automation in such a way that when the sensor is closed (plates approached) the automation is closed. Each position of the sensor other than the closed status position will consider the automation open.



## **Power supply**

1Control ACCESS is powered by 12V DC voltage through the RED (+) and BLACK (-) cables.

## **Positioning**

It is essential to place 1Control ACCESS in a place with data network coverage.

1Control ACCESS is IP66 certified therefore it is possible to position it favorably for data reception without worrying about protecting it from bad weather.

1Control ACCESS is already equipped with its own multi-operator data SIM which is able to automatically connect to the operator with the greatest coverage.

## **Internet connection**

Once switched on, 1Control ACCESS automatically connects to the network in about 3-4 minutes.

Even in the event of moments of lack of connectivity, 1Control ACCESS is able to function correctly through Bluetooth LE 4.0 because it keeps inside all the information necessary for correct operation. During the absence of connection, the changes made from the Web Administrative Area are obviously not propagated to the 1Control ACCESS device, but are saved in the cloud. As soon as 1Control ACCESS is connected to the Internet again, all the changes made are automatically sent to the device.

## **Security**

1Control ACCESS is protected by the most modern cryptographic systems. Communication between ACCESS and a smartphone is protected by state-of-the-art security algorithms based on public keys and symmetric end-to-end encryption with ephemeral keys. CLOUD connectivity is protected by TLS encryption and public key authentication.

The first person who connects to the device via the 1Control App must set an 8-digit PIN code which must be kept secret and which allows the owner full control of the device.

## **Guides and video tutorials**

You can find guides, video tutorials and other technical material on the 1Control website:

[www.1control.eu/guide/en/access](http://www.1control.eu/guide/en/access)

## Specifications

Connectivity	2G, 3G, 4G LTE
Bluetooth	Bluetooth 4.2 LE
Open/close sensor	Magnetic, REED type
Output contact	Clean contact, settable normally open or closed *
Contact actuation time	Configurable: 1 - 15 seconds
Consumption	< 10W
Dimensions	270 * 150 * 90 mm
Maximum number of Users	1.000
Maximum number of Administrators	30
Operating temperature	-10 - +40 °C
Operating humidity	5 - 90 %
GTIN/EAN code	TBD

\* 1A @ 32V maximum load

## Accessories

Description	Code
Power supply from 220VAC to 12VDC - EURO plug socket	CMP.ELE.UNI.114
Power supply from 220VAC to 12VDC - DIN rail	CMP.ELE.UNI.113
Multipolar cable of variable length	CMP.ELE.UNI.050
12V AC relay for electric locks	CMP.ELE.UNI.098
12V DC relay for electric locks	CMP.ELE.UNI.099
24V DC relay for electric locks	CMP.ELE.UNI.100
Cylindrical open/close sensor, 3m cable	CMP.ELE.UNI.097

## Troubleshooting

### Smartphone does not detect 1Control ACCESS device

- Make sure you have activated Bluetooth on your smartphone. If it's already on, turn it off and then on again.
- If you have an Android smartphone, activate the GPS (on some models it is indicated as "Position" or "Location"), then close the 1Control App and reopen it.
- Try restarting your smartphone.
- Make sure that 1Control ACCESS is properly powered
- Please make sure you are using the "1Control" app and not the "1Control SOLO" app.

### The gate or automatic barrier does not open

- Make sure you hear a soft "click" from the 1Control ACCESS device when you issue the open command. If you can, use a tester to verify that the output contact has closed.
- Make sure that the operating time of the output contact is sufficient to activate your automation.
- Check that you have correctly connected the power supply and the opening contacts of the automation
- Consult the automation manual and check that the opening contacts are connected to the correct input. If you need help with the connection diagram, write to [support@1control.it](mailto:support@1control.it)

### 1Control ACCESS does not connect to the Internet

- Check that there is data coverage in the area where you have placed 1Control ACCESS
- Do not place ACCESS inside metal containers or rooms with reinforced concrete walls.