INSTALL AND WIRING MANUAL

Door access control kit

Questions ? :
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Description of pack's elements

ResaBox

- Industrial mini PC, access control server
- Must be connected to both Internet and the door ip controler with the 2 provided network cables

IP Controler

- Acquire data from the RFID reader, control door with dry contact relays
- To be connected to the Resabox
- To be placed at the back side of the door, inside the building

RFID card reader

- Proximity RFID & QRCode reader
- To be placed (screwed) near and at front side of the door,
- To be connected to the door controler with provided cable (2 pairs AWG20)

Desktop RFID reader

- Used to enroll member card
- To be connected to an USB port of the gym desk computer where Resamania app will be accessed

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Resabox description

The Resabox is a fanless industrial computer.
Here is an overview of availables connectors.

RS232   USB x 4   LAN x 2   MIC in   Audio out

Power

Voyant
d'allumage   COM   DVI   VGA   DC in

Resabox install

Local network / Internet Access

The Resabox must be connected to your local network. It configure itself automatically thanks to DHCP. Its open a Virtual Private Network with Resamania cloud application through this network link.

Hints: Connections at destination of TCP/IP port 1194 must be granted

> **Connect your local network to port LAN 1**

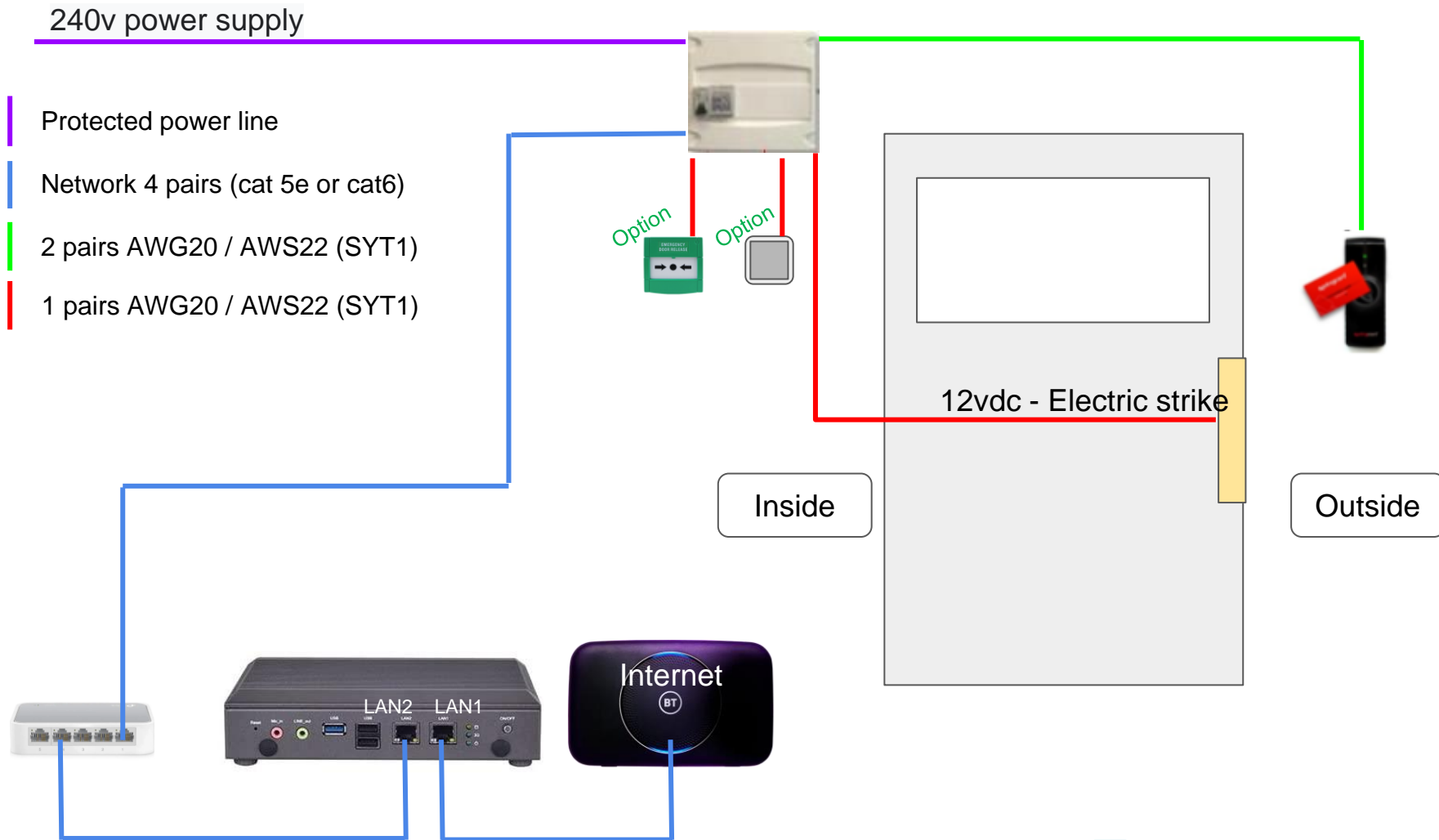## Dedicated network / Access Control Devices

Each access control module must be connected to a dedicated network. The Resabox is connected to this network to manage all the modules
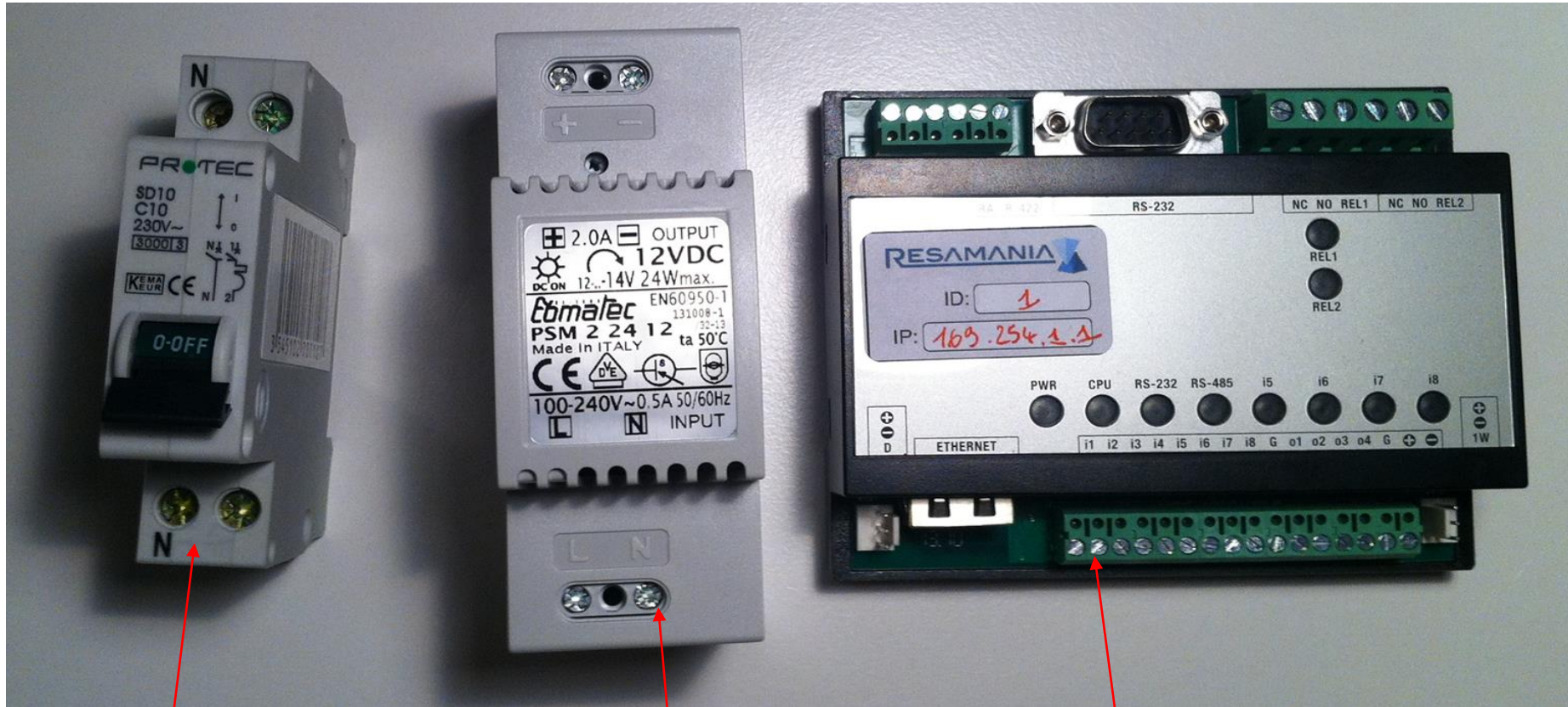
Hints:

- If more than one access control module is deployed, each module must be connected to the provided switch in the package and and additional link from the switch to the Resabox LAN2 must be created

- If only one access control module is deployed, the module can be directly connected to Resabox LAN2

> **Connect the access control dedicated network to port LAN 2**

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Overview

240v power supply

Protected power line

Network 4 pairs (cat 5e or cat6)

2 pairs AWG20 / AWS22 (SYT1)

1 pairs AWG20 / AWS22 (SYT1)

Option

Option

12vdc - Electric strike

Inside

Outside

LAN2 LAN1

Internet

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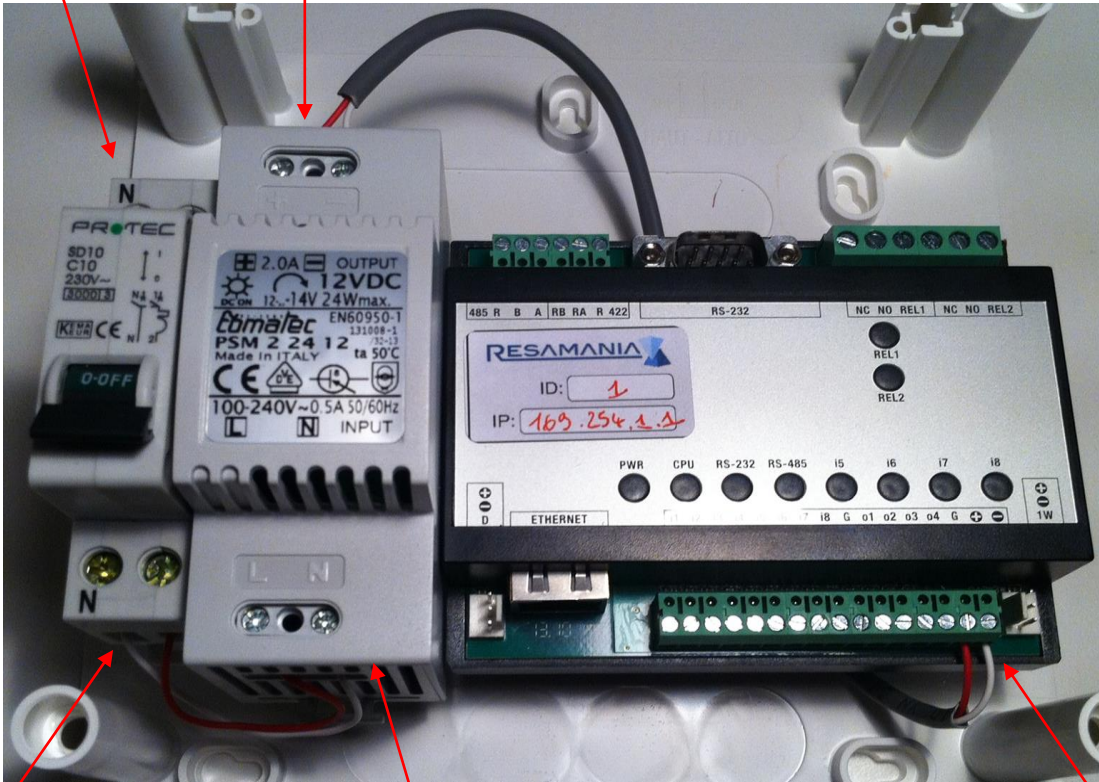
Switchboard components

Circuit breaker 12Vdc Transformer IP Access control module

Access module power supply
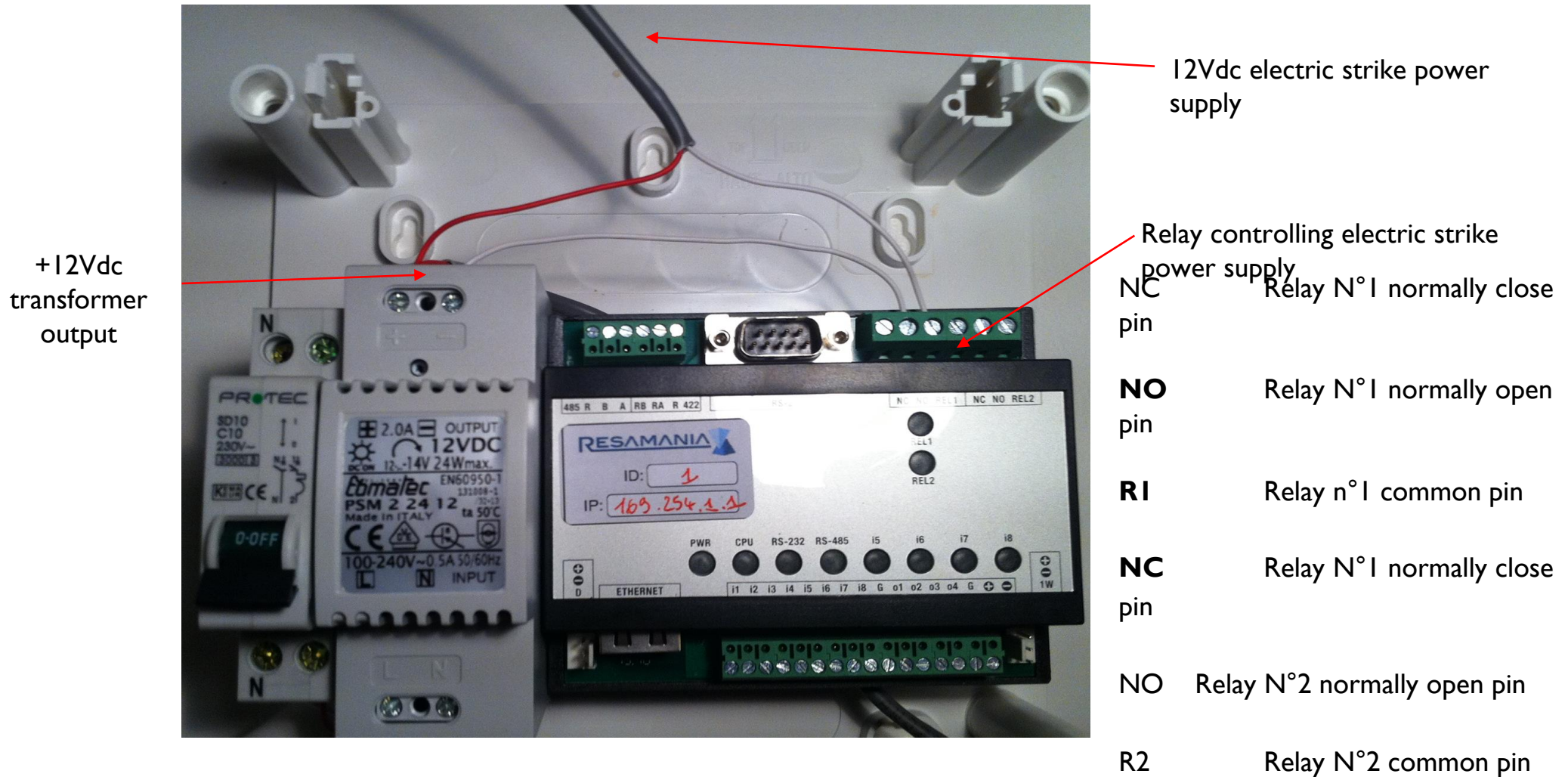
240Vac power supply input

12Vdc transformer output
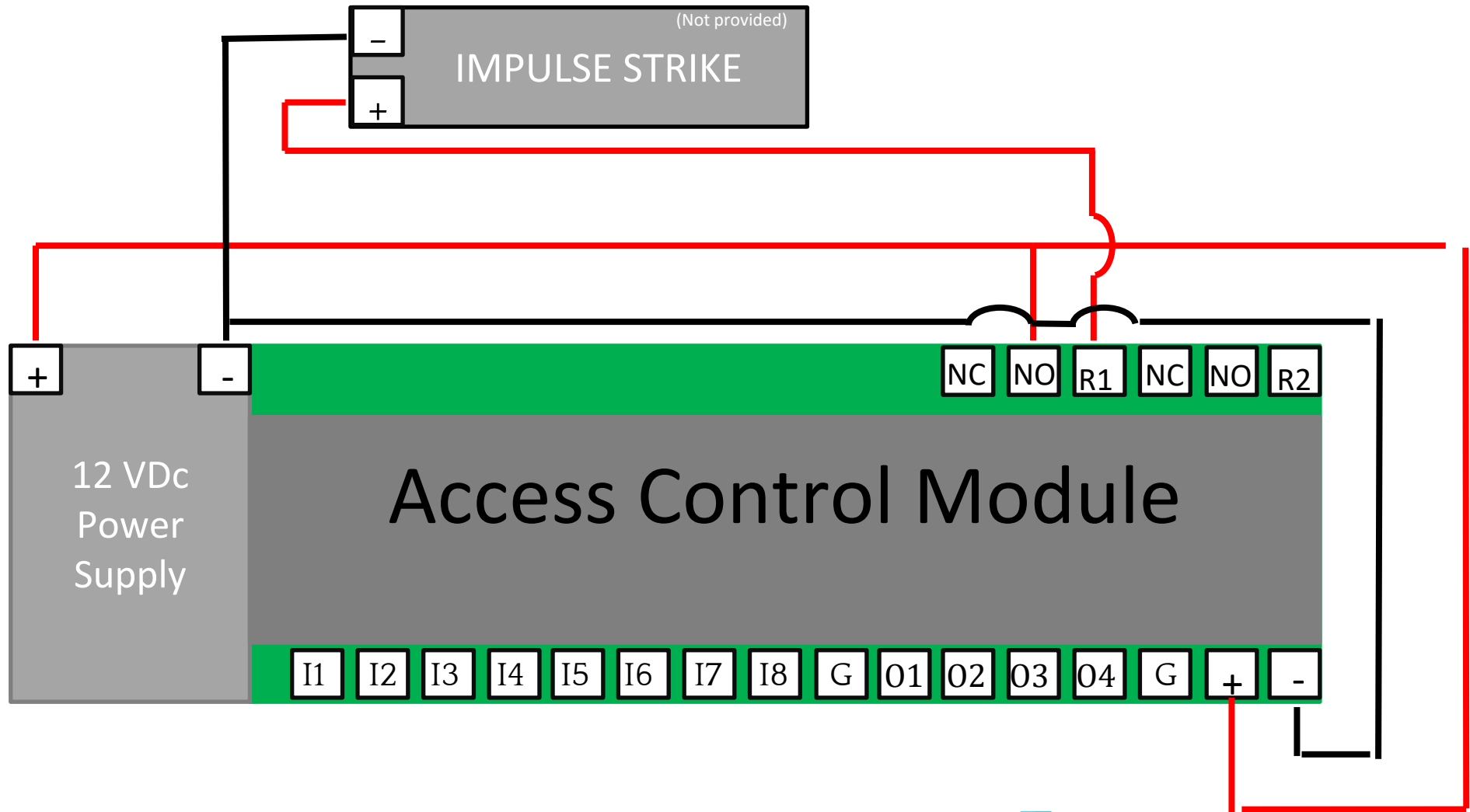

Circuit breaker power supply output

240Vac transformer input
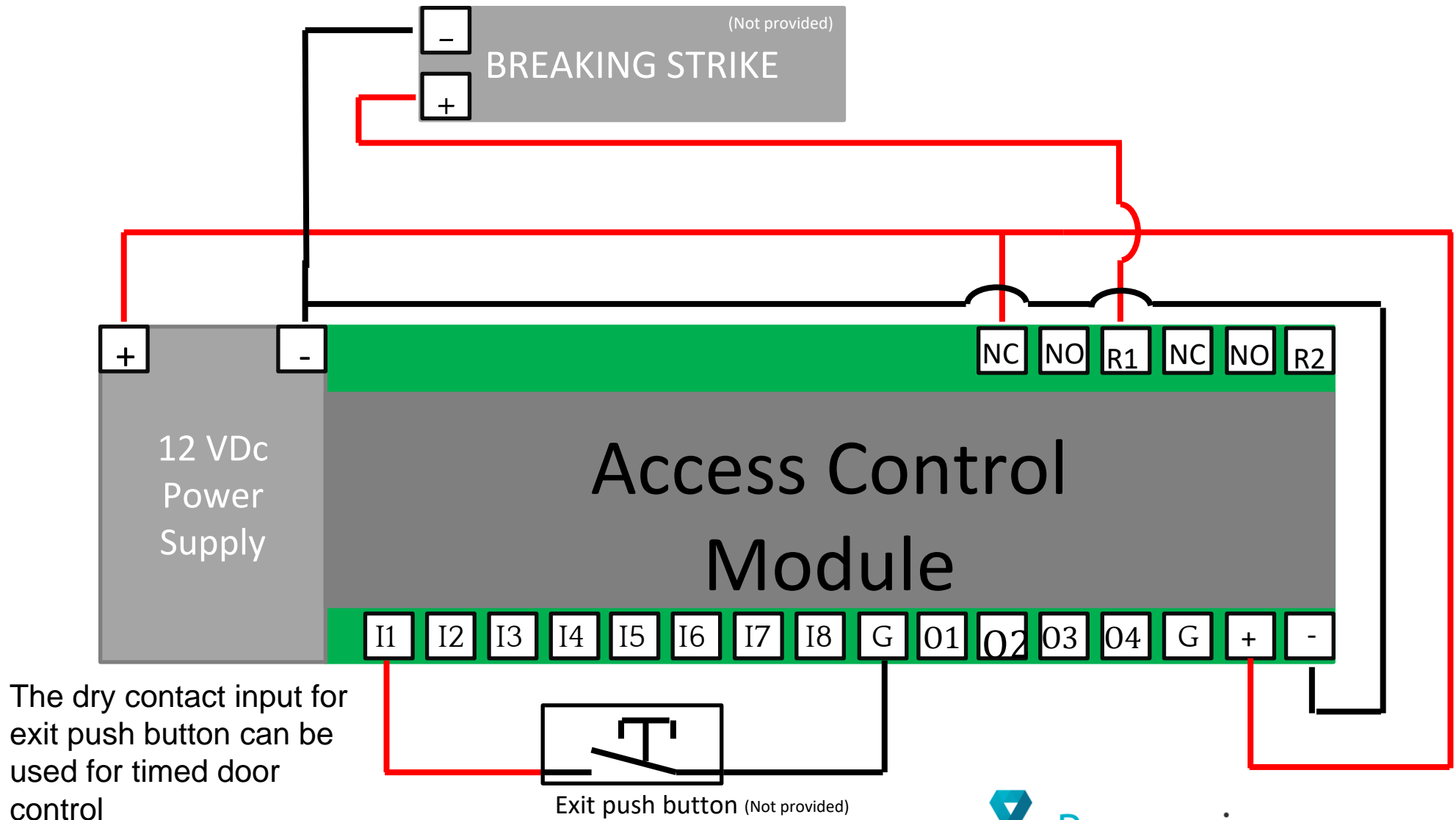
12Vdc access module input

Access module controls

12Vdc electric strike power supply

Relay controlling electric strike power supply

+12Vdc transformer output

NC pin	Relay N°1 normally close
NO pin	Relay N°1 normally open
R1	Relay n°1 common pin
NC pin	Relay N°1 normally close
NO	Relay N°2 normally open pin
R2	Relay N°2 common pin

Wiring diagram for impulse electric strike

Wiring diagram for breaking electric strike or electromagnetic lock

(Not provided)

BREAKING STRIKE

−

+

12 VDc Power Supply

+

−

NC NO R1 NC NO R2

Access Control Module

I1 I2 I3 I4 I5 I6 I7 I8 G 01 02 03 04 G + −

The dry contact input for exit push button can be used for timed door control
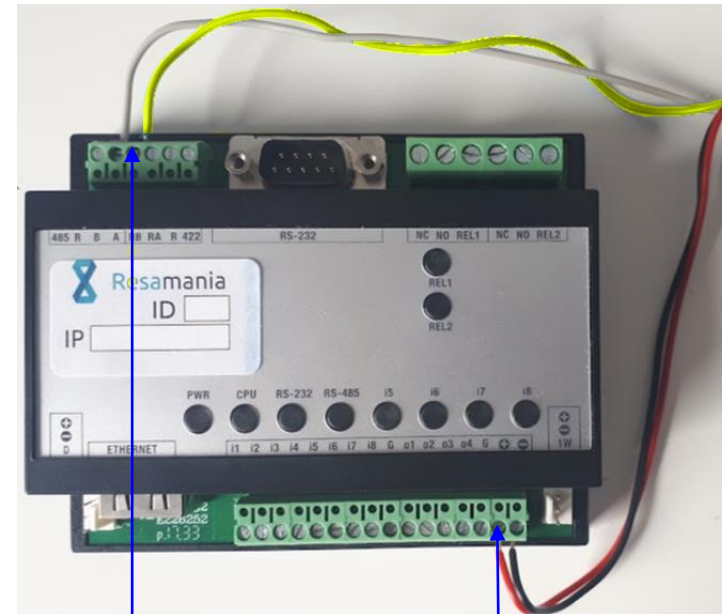
Exit push button (Not provided)

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Wiring photo for STID card reader

Reader RS485 bus

12VDc power supply bridged with the ones of the access control module

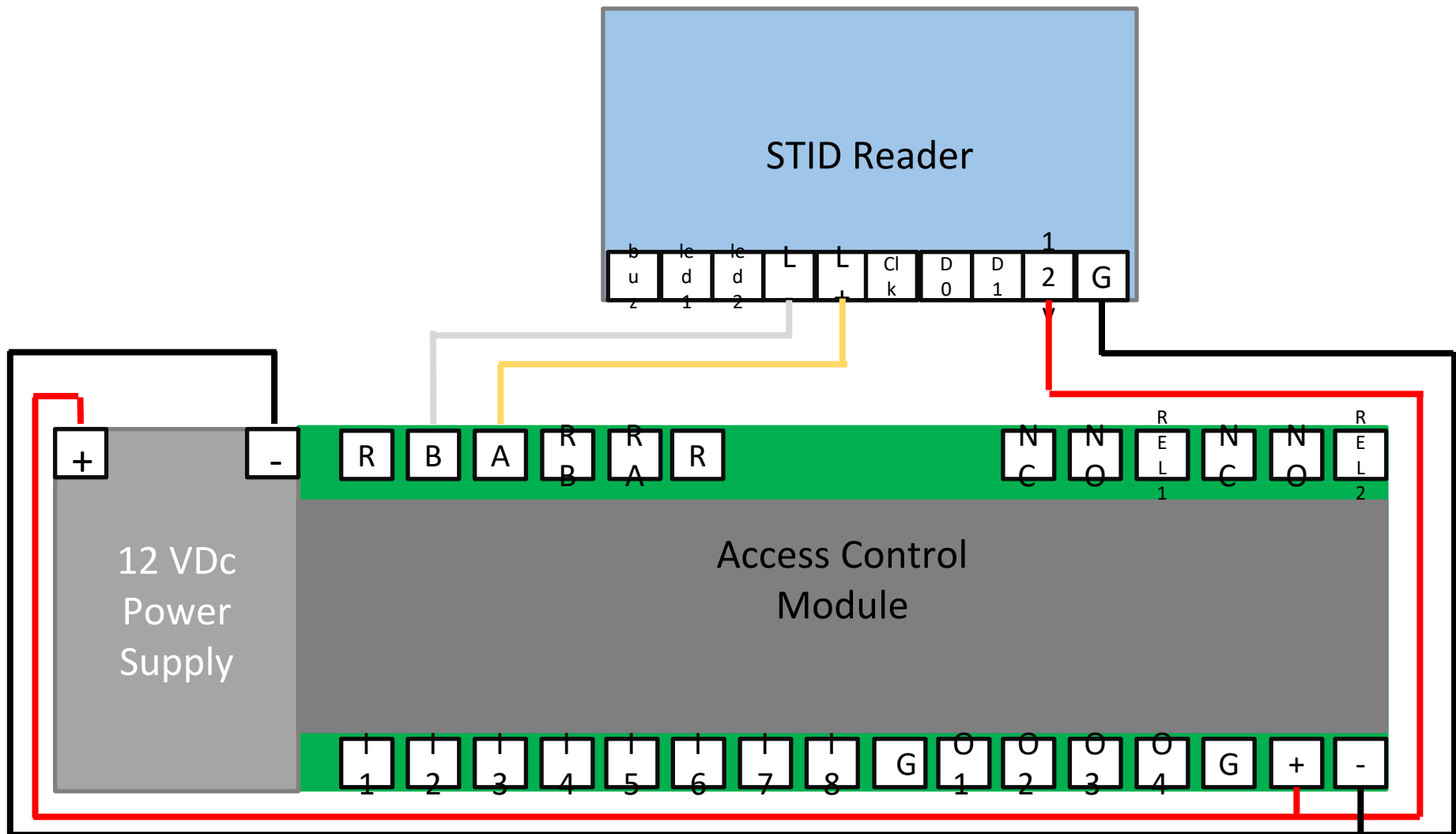| Yellow	Yellow	Red	Black
L-	L+	+12V	0v

RS485 bus from the reader(s)

12VDc power supply bridged with the ones of the access control module

White	Yellow	Red	Black
L-	L+	+12V	0v

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Wiring diagram for 1 STID reader

Wiring diagram for 2 STID readers