Spy Proximity Wall Reader

TECHNOLOGY

The 13,56 MHz RFID proximity wall reader is the perfect solution for access control in doors where its closing element is an automatism: in peripheral accesses, parking, elevators, healthy areas, swimming pools, etc.

Operation mode: Off-line (autonomous).

The wall reader activates the closing element (electric, electromagnetic, motorized, strikes, etc.) using a relay (available 2 relays board with opening push button and door sensor). It needs an outside power supply of 12-24V AC-DC

It offers the same benefits as the proximity lock:

- User identification, time zone, state tables
- Audit trail of the events (openings and attempts of openings)
- Cancellation of lost or stolen cards, etc.

ELEVATORS

The 8 relays board is the ideal complement for the wall readers when it is necessary to activate several elements from a unique point. It allows deciding which elements are going to activate for each user.

The main example is an elevator. The user inserts or approaches its credential to the wall reader. The wall reader recognizes user's identity and using one or more relays it will activate the buttons where the guest is allowed to access. The user won't have permission to access to the floors where the access is not allowed.

The board integrates 8 relays, and up to 5 relay boards can be conencted via serial, so 40 relays-contacts can be controlled.
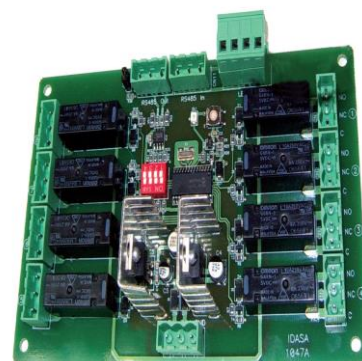
ELECTROMECHANIC MECHANISM

The wall readers can activate or deactivate any electromechanic mechanism through it's relay. TESA offers a large variety of solutions for electromechanic locks.

Electric strikes

· When a basic safety level is needed: Common accesses, parkings, etc.

· Fail secure (when there is a power supply cut the access is blocked)

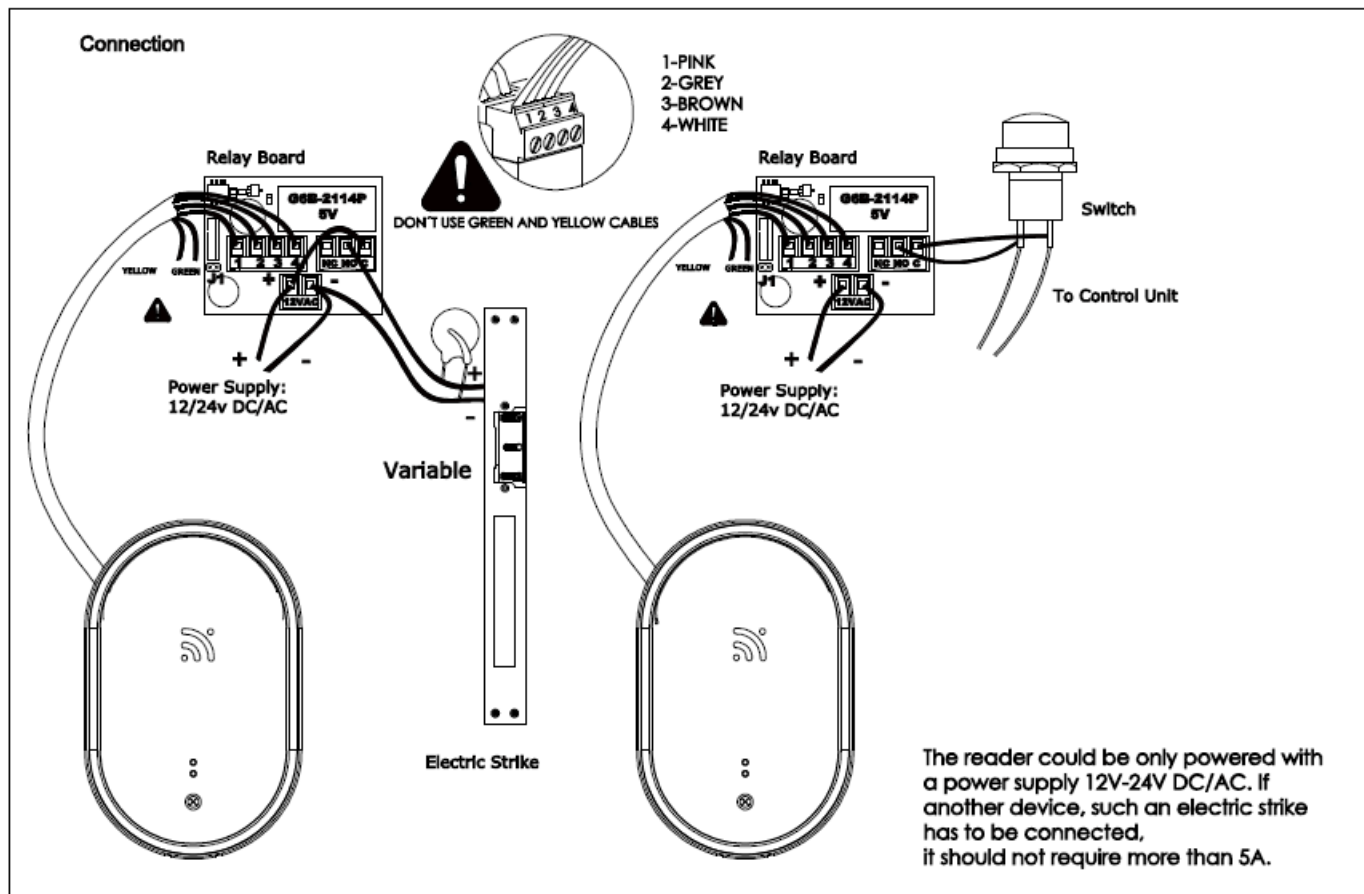· Powerr supply: 12-24v AC/DC, 0,6A

Electromagnetic locks

· When a high safety level is needed: Entrances, emergency exits, etc.

· Fail safe (when there is a power cut the access is free)

· Supply: 12 Vdc/500mA or 24 Vdc/250mA
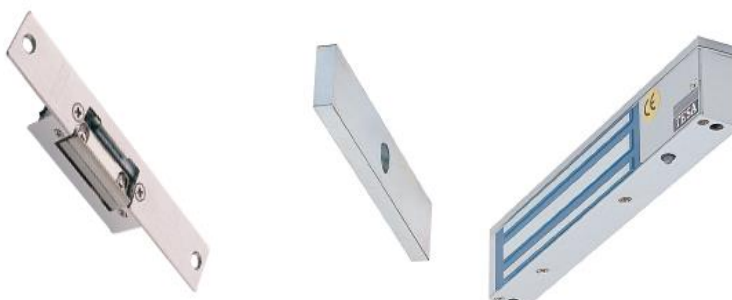
INSTALLATION

Typical diagram of a connection to an electric strike. If an AC electric strike is used, it is recommended the installation of the VARISTOR in the electric strike in order to absorb the electric noises that could damage the control unit of the reader.

For more information, see the electric strike's features.

Connection

1-PINK
2-GREY
3-BROWN
4-WHITE

Relay Board

DON'T USE GREEN AND YELLOW CABLES

Relay Board

Switch

To Control Unit

YELLOW GREEN

Power Supply:
12/24v DC/AC

Variable

YELLOW GREEN

Power Supply:
12/24v DC/AC

The reader could be only powered with a power supply 12V-24V DC/AC. If another device, such an electric strike has to be connected, it should not require more than 5A.

Electric Strike

TECHNICAL FEATURES

READING MODULE

•Identification technology: RFID 13,56MHz Read and Write contactless chip.

•Reading distance: 10mm with standard credentials.

•The jack connecting to the Portable Programmer is in the reading unit.

CONTROL UNIT

•Non volatile memory.

•Audit trail up to 1500 users and 1000 events (openings and attempts of openings).

•Clock and calendar in real time. 30 time zones with 5 periods of time each of them.

•Green and red warning LEDs. Different warnings: low battery level, denied access, etc.

•Operation ways:

•Standard: Operation by default. Card is needed for opening.

•Passage mode: wall reader always opened.

•First user: Lock in passage after the first access of an authorized user.

•Double user: Two authorized users must approach their credential in order to open.

CONNECTORS

•CN1: Supply: 12 to 24V DC and 12V AC.

Consumption: 20mA.

Consumption when the relay is working: 150 mA.

•CN2: RS485. 3 meters cable between reader and relay board included.

•CN3: Relay exit (NO, NC, C).

Cut capacity: 5A 250V AC/ 5A 30V DC.

•CLR: Reset button to erase reader's memory.

OPERATION CONDITIONS

•Humidity: Up to 85% without condensation.

Interior drainage in the reader.

•Temperature: Between -10ºC and 80ºC.

•Electric strike's noises: It is recommended the installation of the VARISTOR in the electric strike to absorb the noises that it could produce. ONLY AC power supply.