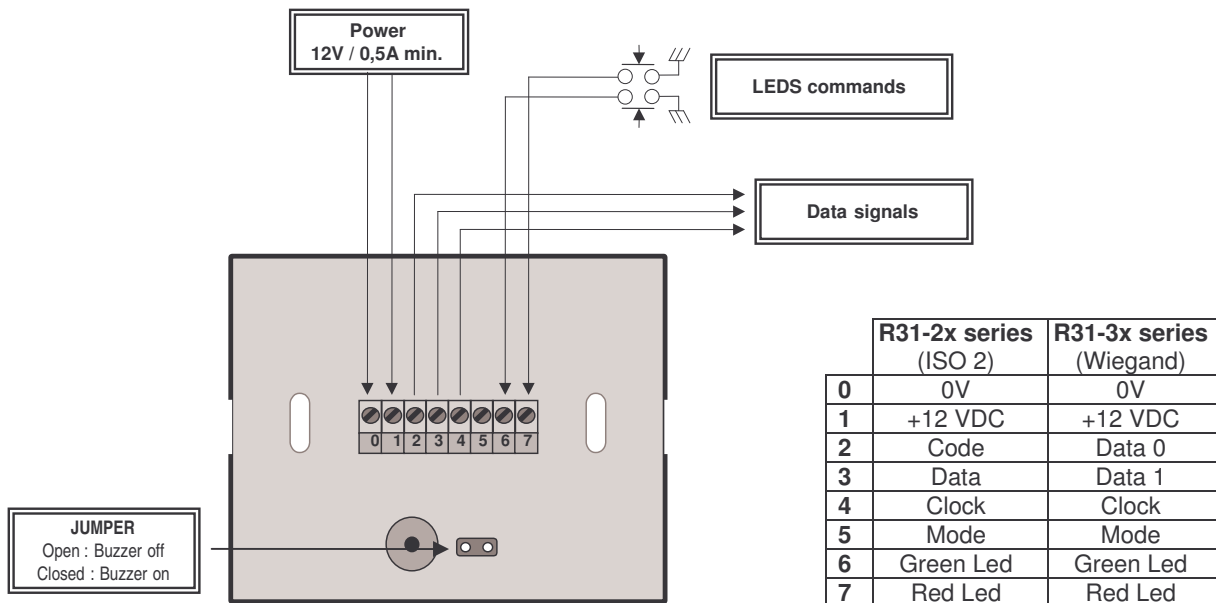


### 1• Wiring diagram



### 2• Recommended cables

Use a multi-conductor cable, pair shielded. When power is supplied with the same cable we recommend:

- |                               |                               |
|-------------------------------|-------------------------------|
| 1 pair AWG24 for up to 30 m   | 1 pair AWG35 for up to 50 m   |
| 2 pairs AWG24 for up to 60 m  | 2 pairs AWG35 for up to 100 m |
| 3 pairs AWG24 for up to 100 m |                               |

### 3• Pull-ups resistors

For Data signals, 10kΩ pull-up resistors are connected internally to V<sub>in</sub> (power supply voltage).

### 4• Buzzer

The buzzer gives an indication of correct read, not depending on the eventual authorizations or access rights given to a card. It will emit a brief sound as soon as a card or tag is read. It is possible to turn it off by removing the jumper located just nearby the buzzer.

### 5• Led

The led is bicolor (red & green). When the reader is powered on, it is amber (red+green). It can be driven by the remote system to light it either red or green, by bringing a 0V respectively on the red or green inputs of the reader's connector.

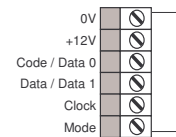
### 6• « Mode » input

By default, when this input is not connected, the reader will automatically delay the transmission of the code every 2 seconds when a card is left in the reading field. If a new card is shown to the reader before this time laps, its code will be transmitted immediately.

When connected, this input cancels the delay in the transmission rate of a same card left in the reading field. In other word, the reader will transmit the code as fast as it can.

To cancel the delay, connect the "Mode" input with 0V as shown below:

1. Power off the reader.
2. Connect the input **Mode** to **0V**.
3. Power on the reader.



⇒ Check if the reader is operating properly by presenting a card. The reader should then beep quickly on each reading.

4. To come back to the initial configuration, power off the reader, then unplug the wire between "Mode" and "0V". Power the reader on. Now, when a card is left in the reading area, the reader will beep only every two seconds.

### 7• Installation

- a) Connect the reader
- b) Test the reading and communication.
- c) Attach the reader on the wall, or on standard electrical flush-boxes. Install the screw caps.

**Caution:** Screw caps are made to be hard to remove once installed. We recommend making all the tests before installing them.

### 8• Precautions for installation

- Power supply tension at the reader's connector should be strictly comprised between 10.5V and 15V.
- Keep the reader away from computer or power cables as much as possible. They can generate an electrical perturbation that is function of their proximity and radiation level.
- Distance to respect between two readers : parallel plan : 30 cm – Same plan : 40 cm – Perpendicular : 25 cm.