

CAUTION FOR THE USER

Any change or modification of the product is forbidden if not expressly approved by the manufacturer

0. DESCRIPTION

The MRRE receiver was designed to be connected to access control central units as a radio reader. The code received from the transmitter is re-sent to the output terminals according to the format and protocol selected by means of the programming dip-switches.

The formats available at the output are those most commonly used in access control systems.

1. TECHNICAL FEATURES

Reception frequency	433.92 MHz
Output code format	Wiegand, Dataclock, TTL, RS232
Code	Digital
Power supply	12 – 24 V ac/dc
Average consumption	30 mA
Signalling devices	red LED

2. SELECTION OF OUTPUT FORMAT AND PROTOCOL WIEGAND

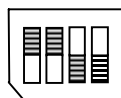
30 bit PRASTEL



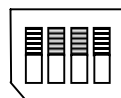
37 bit HID



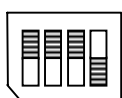
26 bit INDALA



26 bit without site code

**DATA CLOCK**

Standard ISO track 2:
start sentinel + 16 digits +
end sentinel



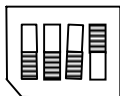
Standard ISO track 2:
start sentinel + 16 digits +
separator + end sentinel +
LRC

**TTL****RS232**

9600 baud, 8 bit, no parity, 1 stop

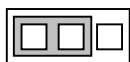
CHANNEL ADDRESS

The MRRE receiver can be operated by one or more pushbuttons of the transmitters by means of the channel address dip-switches (see figure)

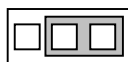


OUTPUT LEVEL SELECTION

A jumper on the circuit (see figure) makes it possible to select the level of the output signals in the Wiegand, Dataclock and TTL formats.



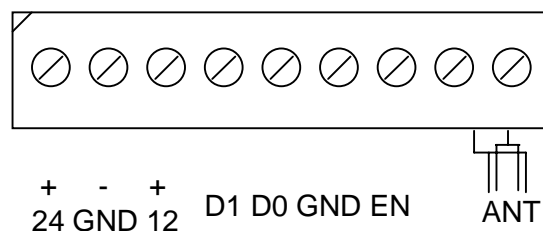
Vout = 12 V



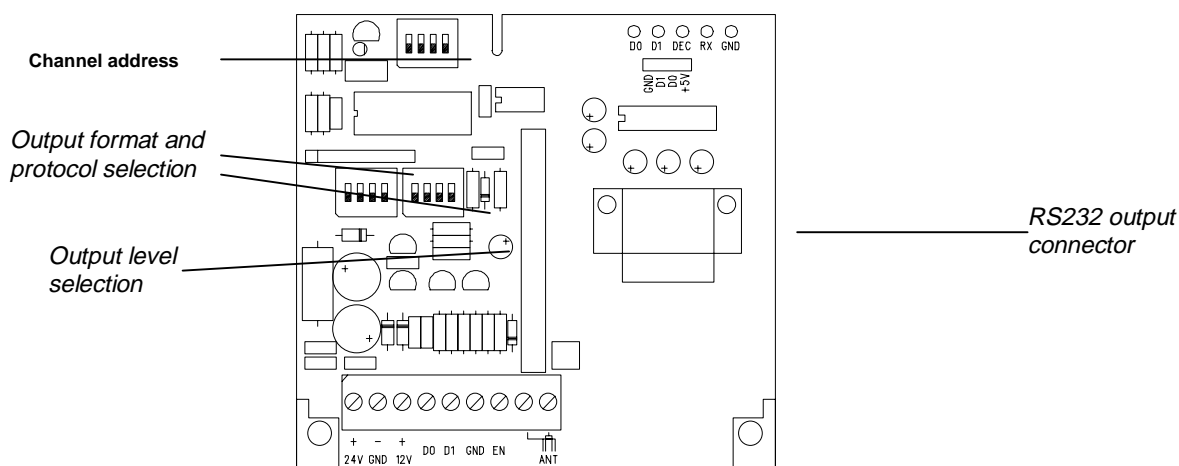
Vout = 5 V

CONNECTIONS

24	24 V ac/dc power supply
GND	Ground
12	12 V ac/dc power supply
D0	Data output: Wiegand: DATA0 Data Clock: DATA TTL: DATA RS232: not used
D1	Data output: Wiegand: DATA1 Data Clock: CLOCK TTL: NOT USED RS232: not used
GND	Ground
EN	Enable contact
-	Antenna shield
ANT	Antenna



The EN terminal must be connected to GROUND to enable the receiver.

**FCC ID: ON3MRRE**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.