



# KEYED ACCESS CONTROL SYSTEM

## *Dallas Access series*

Installation and operation manual

## **Dallas Access control system Touch Key Reader**

Power supply: 12 V DC / 9 V AC

Power consumption: 10 mA in stand-by, 30 mA when command active

Maximum distance between reader and remote electronics unit: 10 meters with twisted pair

Outbound contact through double Exchange relay com./N.A./N.C. for opening lock command in MONOSTABLE or bistable (selectable)

Relay capacity: 1 A/30 V DC

Programmable keys: 500

Key deletion: individual or global

### **Use**

The system makes it possible to use a *Dallas* high security electronic key to open solenoid bolts, control alarm systems, or electronically enable the use of personal equipment.

Each Dallas key has a unique and unrepeatable code with billions of possible combinations that make it extremely secure from any attempt of duplication or sabotage. In addition, its special design makes it resistant to external agents such as water, salty environments, heat, etc ... making the system extremely flexible and suitable even for demanding applications (sea, swimming pools, open-air car parks, workshops, etc.).

### **Outputs**

The system is equipped with a double throw bistable output relay with com./NO/NC contacts (30 V DC/1 A max)

### **- Operation**

Each system comes with 2 Dallas master system keys: one green and one red

**ATTENTION:** the two master system keys belong exclusively to the system they were matched with and losing them makes any further programming impossible.

-After powering on, the LED flashes red for about 3 seconds during system initialization state, then in stand-by mode the red LED stays on steady

- During normal operation the red LED stays on, in standby condition.

### **MEMORIZING A USER KEY**

The system can memorize 500 different *Dallas* keys. Each key is unique and unrepeatable, and copies can not be made.

#### ***Memorizing user keys***

- 1.** Place the green key on the reader. The LED lights green
- 2.** Place a user key to be memorized on the reader. The LED slowly flashes green showing that memorization is completed. If the green LED flashes rapidly the key was already memorised or the memory is full
- 3.** Removing the user key from the reader, the LED returns steady green, awaiting a further user key to store. If needed, repeat the previous step.
- 4.** When the operation has been completed, wait about 10 seconds for the system to automatically return to standby mode.

## DELETING USER KEYS

This function allows you to individually delete the memorized keys.

### *Deleting an individual user key*

1. Place the Red key on the reader **once**. The LED slowly flashes red.  
**ATTENTION: Removing the red key from the reader and then placing it on the reader again deletes all codes (fast flashing of the red LED)**
2. Place the user key to be deleted on the reader. The LED rapidly flashes red showing that deletion is completed. A slow flashing indicates that the key was not already memorised.
3. Removing the key from the reader, the LED continues to flash red while waiting for a possible further key to delete. If needed, repeat the previous step.
4. When the operation has been completed, wait about 10 seconds for the system to automatically return to standby mode with the Red led on.

## DELETING ALL USER KEYS

This function deletes all memorized keys.

### *Deleting all user keys*

1. Place the Red key on the reader once. The LED slowly flashes red.
2. Remove the Red key from the player and then place it on the reader again. The led will flash rapidly. All keys have been deleted.

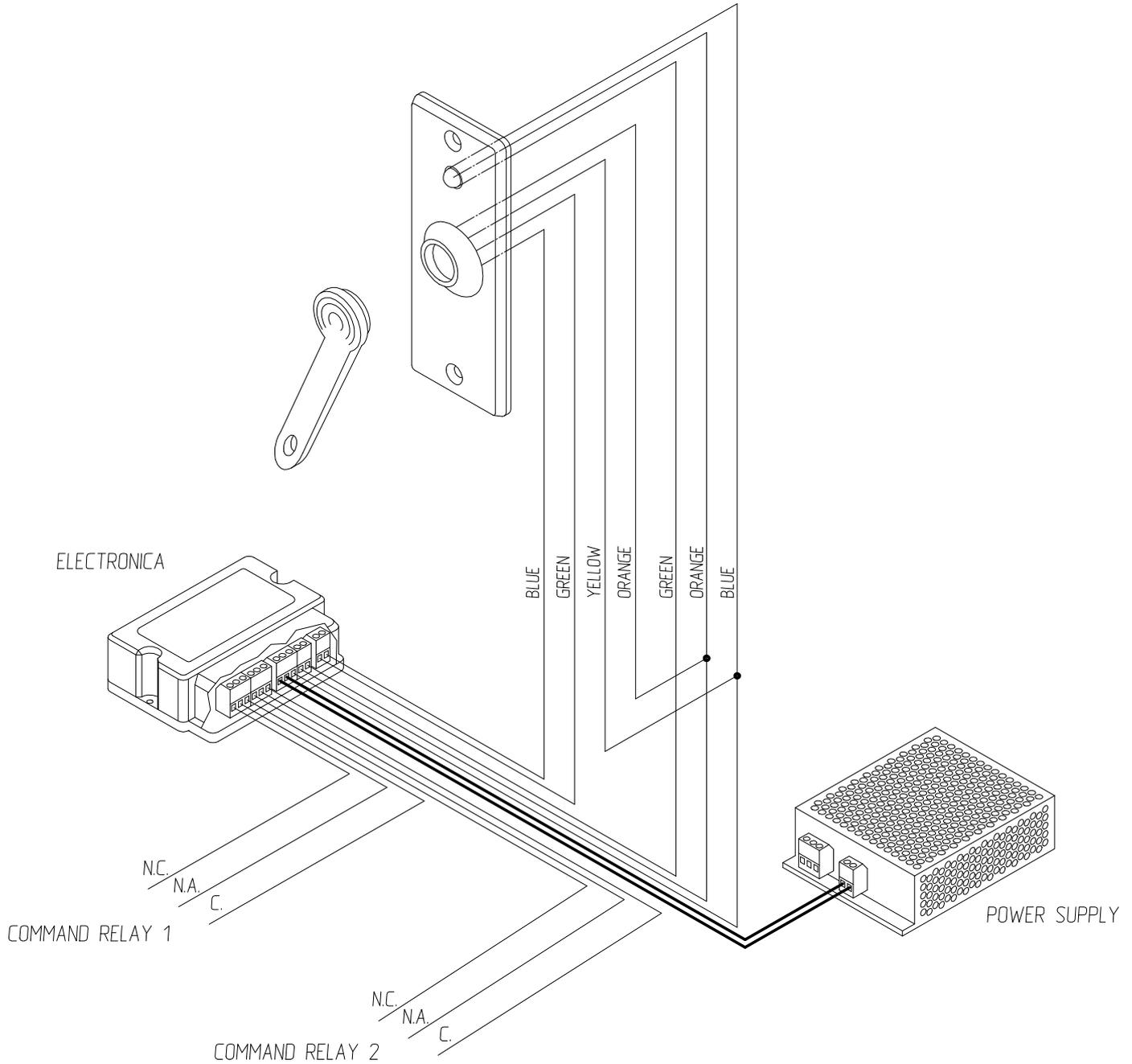
## PROGRAMMING THE RELAY MODE

This function can be used to program operation of the relay in monostable or bistable mode. The relay is pre-set at the factory to operate in monostable mode.

### *Programming the relay mode*

1. Place the green key on the reader. The led turns stable green.
2. Place the red key on the reader. The LED flashes green,
3. Wait about 10 seconds for the LED to return red indicating that the system is in standby mode. The relay is activated now in bistable mode, i.e. placing a valid user key on the reader a first time switches the relay ON, while a second time returns it to OFF (ON/OFF switch).
4. Repeating the operation described above, the relay returns to operate in monostable mode (ON/OFF button)

WIRING DIAGRAM Touch Key Dallas/Reader



TERMINAL

