

REC-18 Microlatch™ RF Receiver Controller

English



Technical Specifications

Version:
v1.0-1506

Microlatch™
Your Finger is the Key!

2. REC-18 RF CONTROLLER – INSTALLATION INSTRUCTIONS



NOTE - These instructions are designed for professional installers only.

2.1. Description

1. **Drill** cable entry hole in cable entry area of case. Wiring may be brought into the case from the rear, side or bottom.
2. **Secure** case to wall. **Do not mount** on a metallic surface or next to large pieces of metal as this will affect the RF range.
3. **Ensure** that the aerial wire protrudes from the case in a vertical position.
4. When positioning the REC-18 Controller take into account proximity to mains power, ability to hear the door chime and ability to hear the Reader low battery signal which is generated at the receiver.
5. The door chime can be disabled by removing the shunt **J2** (T2).

2.2. Configuring BIO-13 Fingerprint Reader to REC-18 RF Controller

1. Clearing the memory - **press** and **hold** the PCB switch on the REC-18 RF Controller until the RED LED extinguishes. (first power up only)
2. **Release** and then momentarily **press** the switch again. The RED LED will flash rapidly.
3. **Generate** a signal from the BIO-13 Fingerprint Reader within range of the REC-18 RF Controller. Note that the RED LED briefly stops flashing.
4. The BIO-13 Fingerprint Reader is now learnt to the REC-18 RF Controller. Learn another reader or push switch to exit learn mode.

2.3. Deleting Relationship BIO-13 Fingerprint Reader from REC-18 RF Controller

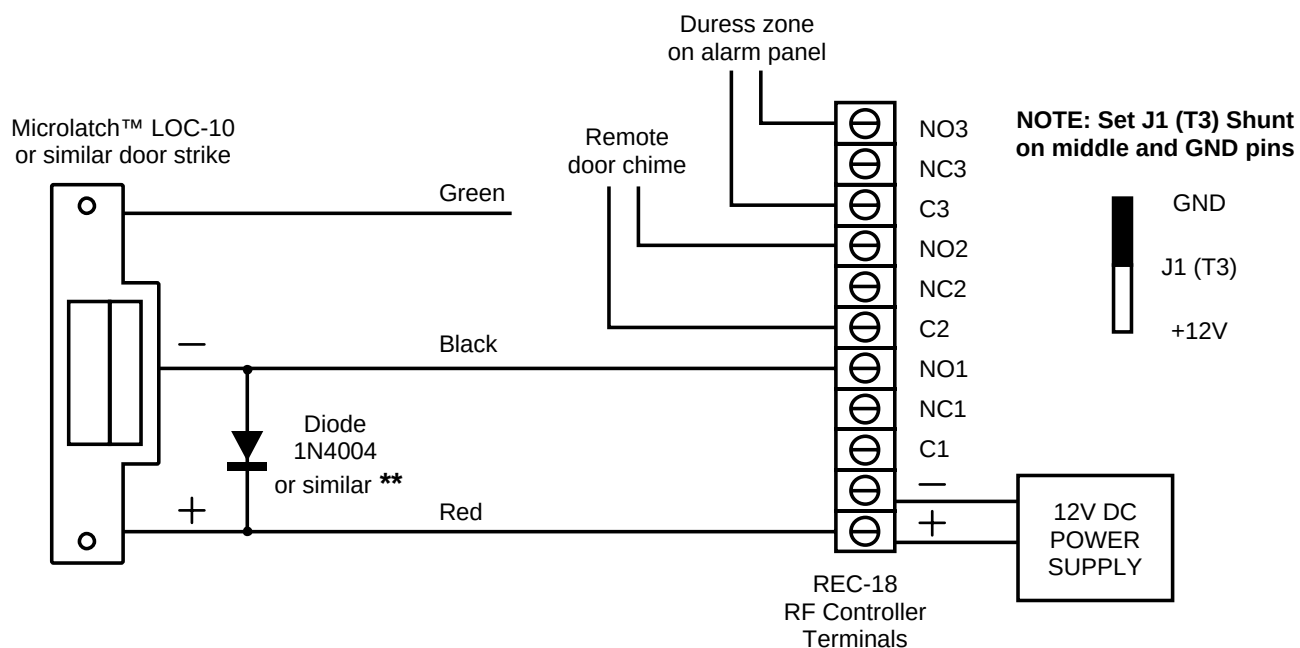
1. Complete Step 1 as for learning (See 2.2). This will delete all Keeloq™ signals from the REC-18 EEPROM memory.

2.4. REC-18 Connection Terminals – Outputs Description

C1, NC1, NO1	Door lock output. (User group 1) This output is timed and the time is set using the 4 way DIP switch in the REC-18 Controller.
C2, NC2, NO2	Invalid finger output (this relay works in conjunction with the door chime). This output is timed. The output will operate for 1 second minimum.
C3, NC3, NO3	User group 2 output. This output is timed. The output will operate for 1 second minimum.

2.5. Example Application

Power to Unlock Configuration



**** IMPORTANT ****
DIODE MUST BE FITTED OR OTHERWISE
REC-18 CONTROLLER MAY MALFUNCTION
AND WARRANTY VOID.

The J1 (T3) shunt on the PCB simplifies door strike connection by removing the need to loop either GND or +12V to the common of Relay 1.

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Microlatch™ REC-18 RF Receiver Controller

Product Specifications

Operating Voltage	10 - 15VDC regulated 300mA minimum battery backed supply recommended.
Power ON indicator	Green LED
Current consumption	26mA standby 175mA doorchime 1 second 45mA low battery signal 250mA maximum (all outputs no door strike)
Output 1 (Door)	Timed voltage free SPDT relay Common can connect to +12 or GND via J1 (T3)
Output 1 timing	4 settings via on board DIP switch SW1 ON = 5 seconds SW2 ON = 10 seconds SW3 ON = 15 seconds SW4 ON = 20 seconds Note: All times are approximate
Output 2 (Chime)	voltage free SPDT relay timed action
Output 3 (User Group 2)	voltage free SPDT relay timed action
Relay Rating	1 Amp @ 24VDC maximum
Low Battery Signal	Flashing RED LED and warbling piezo for 7 seconds upon receipt of low battery signal from reader. Repeats upon each reader activation.
RF Operating Frequency	433.92MHz
RF Signal Type	Code Hopping (Keeloq™) ASK
RF Range	30 metres Line of Sight (Environment Dependant)
Doorchime ON/OFF	J2 (T2) shunt on PCB
Doorchime Output	Onboard 0.25/2W 8 Ohm Speaker Onboard SPDT Relay

All specifications subject to change without notice in the interest of ongoing product development

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