RX-PFE manual

Receiver for electric locks | Revision 00

Reading edition based on the original MKN rev.00 manual. Terminal and jumper names retain the markings printed on the board. Technical translation; consult the original Portuguese manual if in doubt.

Main specifications

Full Range power supply: 90 V to 240 V AC.

Receiver for 12 Vdc pulsed electric locks or electromagnetic locks.

Programmable operating and delay times; built-in receiver and interlock function.

Stores up to 156 remote-control BUTTONS at 433.92 MHz, using Code-learning or Rolling-Code systems.

Maximum output current: 1 A for a pulsed lock; 600 mA (0.6 A) for an electromagnetic lock.

Before installation

Disconnect power before installation. Electrical accidents can be fatal. Keep children away from the installation area.

Connections

REDE: AC mains input.

FECHADURA/ELETROIMÃ: pulsed output for an electric lock or continuous output for an electromagnetic lock.

CLAUSURA/GND: input for the normally closed (NC) sensor on the secondary door.

BOTOEIRA/GND: external push-button input.

Select the lock type

Select FECHADURA (PULSANTE) to apply 12 V for a few seconds when activated.

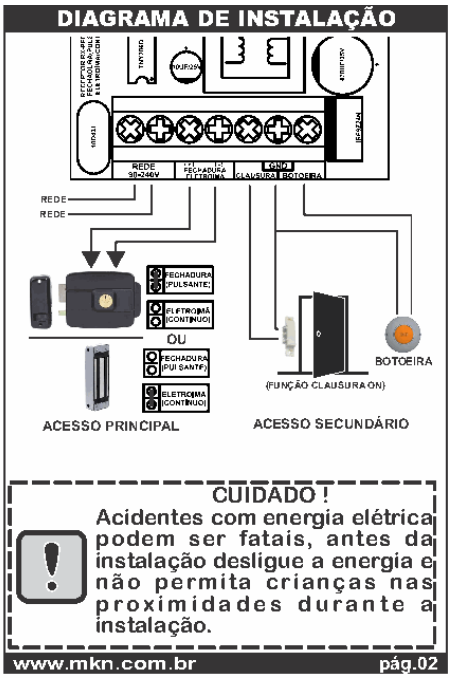
Select ELETROÍMÃ (CONTÍNUO) to supply 12 V continuously and keep the electromagnetic lock energized.

WARNING: select exactly one option. Never select both types simultaneously or leave both unselected. An incorrect selection may cause malfunction or damage to the lock and/or RX-PFE, which is not covered by the warranty.

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Original installation diagram



Original diagram labels are in Portuguese. REDE: AC input; FECHADURA/ELETROIMÃ: 12 Vdc output; CLAUSURA/GND: NC sensor; BOTOEIRA/GND: external push button.

Register remote controls

1. Leave the jumper in OFF/TX.

2. Keep the remote-control button you wish to register pressed.

3. Press GRAVA TX twice and watch LED STATUS: three flashes confirm successful registration of the new button; one long flash indicates that memory is full.

Erase all remote controls

WARNING: this procedure erases ALL registered remote controls.

1. Leave the jumper in OFF/TX.

2. Keep GRAVA TX pressed.

3. Activate any remote control; it does not need to be registered.

4. LED STATUS will light up. Continue holding GRAVA TX. After five seconds, the LED flashes three times, confirming that the memory has been erased.

Set the operating time

1. Move the jumper from OFF/TX to TEMPO. LED STATUS stops flashing.

2. Briefly press GRAVA TX. Each press makes the LED flash once and adds one second to TEMPO.

3. At the maximum value, the LED stays on. Return the jumper to OFF/TX when finished.

Pulsed lock: time the lock remains activated, from 1 to 10 seconds.

Electromagnetic lock: time it remains switched off, from 1 to 60 seconds.

If the LED lights up as soon as the jumper is placed in TEMPO or RETARDO, the maximum value is already programmed.

Set the delay

1. Place the jumper in RETARDO. LED STATUS stops flashing.

2. Briefly press GRAVA TX. Each press makes the LED flash once and adds one second to RETARDO.

3. At the maximum value, the LED stays on. Return the jumper to OFF/TX when finished.

Pulsed lock: delay before activation, from 1 to 60 seconds.

Electromagnetic lock: delay before switching off, from 1 to 60 seconds.

In electromagnetic-lock mode with RETARDO, activating BOTOEIRA or TX again during the countdown extends the opening time.

Reset TEMPO or RETARDO

The same procedure applies to both settings. Move the jumper from OFF/TX to TEMPO or RETARDO, depending on the setting to reset.

Hold GRAVA TX until LED STATUS flashes three times. The selected setting returns to its factory default of one second. Return the jumper to OFF/TX when finished.

This procedure does not erase remote controls. To erase them, follow the separate erase-all procedure.

Interlock function (CLAUSURA)

When enabled, this function prevents the main door or gate from opening if the secondary door is open when a command is issued, preventing unrestricted passage between the two doors.

To enable it, remove the CLAUSURA OFF jumper and connect the secondary-door sensor as shown in the diagram.

With this function enabled, BOTOEIRA and TX commands are executed only if the secondary door is closed: the CLAUSURA sensor must be closed (NC) when the command is issued.

To disable it, reinstall the CLAUSURA OFF jumper or connect a wire between CLAUSURA and GND on the board terminal block.

Support and revision

MKN: +55 11 2922-8000 | www.mkn.com.br.

MKN reserves the right to change the manual without prior notice. Check the revision and board markings before installation.