

3414

Control board for 2 motors 433,92MHz

Product Code	Frequency (MHz)	Codification	Terminal Switches	Photocells	External Button	Auto-Close	Flash	Motor Force	Deceleration	Memory Control
3414	433,92	ON ORDER	YES	YES	YES	YES	YES	YES	YES	300

Function Description

1 TERMINAL SWITCHES

OFF: NO terminal switches. In case of single swing gate.
ON: Terminal switches. In case of sliding gate or barrier. The indicating RED LED shows the close contact of terminal switches. When the gate crosses the terminal switches, the indicating LED is off.

2 PHOTOCELL 2. FREEZE MOVE.

OFF: No photocell 2.
ON: With photocell 2. Internal installation, after the total opening of the gate.

3 PHOTOCELL 1.

OFF: No photocell 1.
ON: With photocell 1. Link with Auto-Close.

4 AUTO CLOSE

OFF: No automatic close.
ON: Embedded auto close function. Works with the photocell. When the gate opens and there is no access (no obstacle detection from the photocell), the A/C time is 120 seconds (the gate will close after 120 seconds). If there is access and obstacle detection from the photocell, then the A/C time is 10 seconds (the A/C timer counts 10 seconds after the photocell is free and then the gate will automatically close). The second time of A/C can be changed (follow the below instructions).

5 DELAY BETWEEN MOTOR 1 AND 2

OFF: No delay between 2 motors.
ON: Delay between 2 motors.

6 AUTOMATIC CLOSING

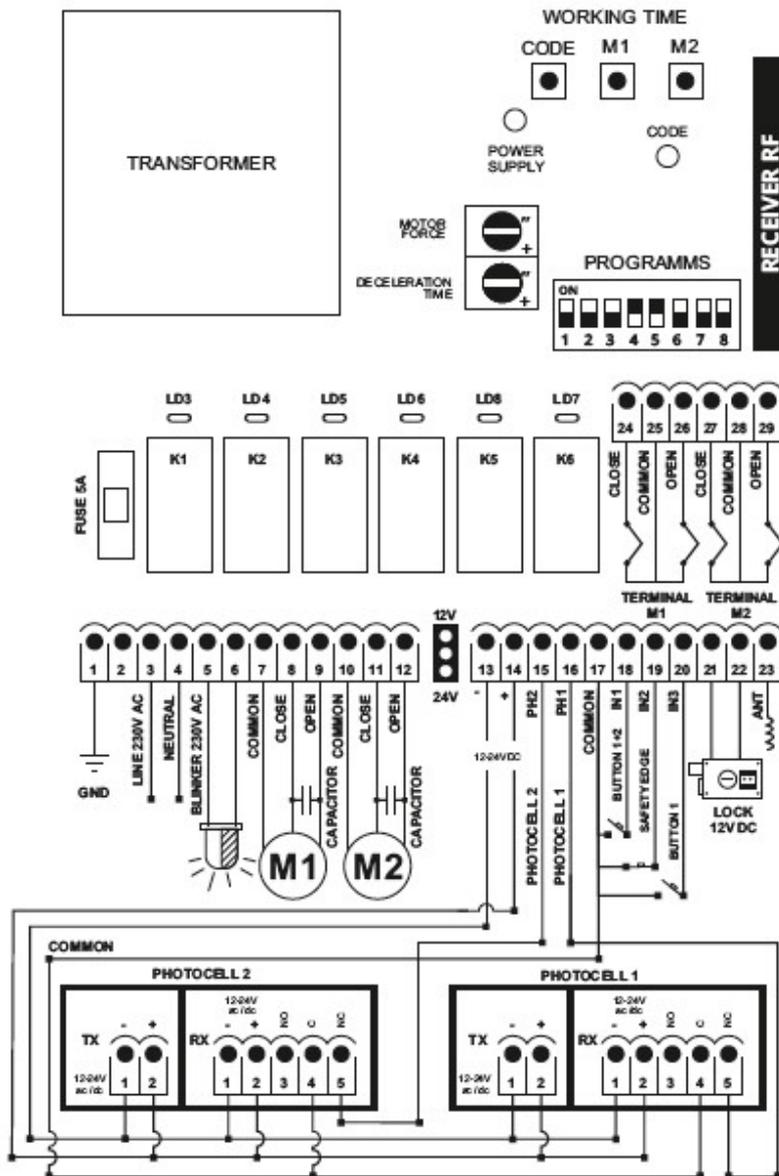
OFF: No automatic closing.
ON: Automatic closing for 1 second after each hour (in case of hydraulic motor)

7 LOCK

OFF: No LOCK
ON: LOCK is activated.. Up to 5A

8 SAFETY EDGE

OFF: No safety edge connected.
ON: Safety Edge contact is controlled. When safety edge contact is activated, the gate is stopped and moved backwards for 10 cm.



Functions and connections

Power Supply 230VAC:

Supply the control panel with 230V. Check that the yellow indication light is ON. Press the button of the transmitter and check the red indication light is ON. The first gate move after power-up (230V) is the OPEN direction, otherwise place the dipswitch 7 in the opposite position.

Motor Connection

In case of Double Swing Gate: Motor 1 (**FIRST opening**) is connected to terminals 7-8-9 and MOTOR 2 is connected to terminals 10-11-12. The COMMON is the terminal 7 for MOTOR 1 and 10 for MOTOR 2.

Motor Polarity

After all connections are completed, move the both motors in the middle of the route manually. Power the control board with 230V. Using the button of timer M1 and M2, check the indication lights to be ON. The movement of the motors needs to be compatible with the function OPEN-CLOSE. If not, turn the wires of the motor CLOSE-OPEN (K8/9) and (K11/12). After all connections, close the gate manually. Close the power supply for RESET.

Working Time:

Both motors are closed.

Before working time set, check that there are physical stops in opening and closing position of the gate.

Each motor is set individually. Press the button M1 (timer 1) until the gate is totally opened and then release it. Make the same for the motor 2 (M2).

Deceleration Time:

During the Open/Close tests, adjust the DECELERATION time from the trimmer in control board, so both motors before ending the route (open or close) operate in deceleration function until they complete the route. It is recommended to adjust the deceleration time so that the motors after route completion to run for another 7-10 seconds in deceleration function. Adjust trimmer for more or less deceleration time. When the trimmer is at zero position, the deceleration time is only 2 sec.

Motor Force:

When working time is set, the trimmer for the motor force controls the motor force during normal function. After working time set, the force trimmer controls the force during deceleration.

Delay between motors:

The delay between 2 motors (program 5 ON) is 3 seconds during opening and 5 seconds during closing. **This time frames are standard.**

Memory Clear:

Press the button CODE of the control board and the RED indication light goes ON after a while. Keep it pressed until the RED indication light goes OFF. The memory is now clear.

Adding a new transmitter with the control panel CODE button:

Press the CODE button and the RED indication light goes ON. Leave it and during the next 3 seconds, press the desired transmitter channel button until the RED indication light blinks and goes OFF. The new transmitter is saved. Follow the same procedure to program more (up to 300 transmitters) new transmitters.

Adding Pedestrian Remote (Motor 1 ONLY opens):

Press the button CODE. The Red indicating LED is steadily ON. Keep pressed the CODE until the RED indicating LED is flashing. Then release the button CODE and press the button of the remote for pedestrian. The RED indicating LED is flashed ONCE. The pedestrian remote is saved and opens only the MOTOR 1.

Adding a new transmitter remotely:

The motor is fully closed or open. Press a working remote button (already in memory) to start the motor working and hold it pressed until the motor stops. When it stops, leave it and press the new remote button immediately. The new remote is saved. Repeat steps to program more remotes remotely. When the memory is full (300 remotes) you cannot add more new remotes.

Double sliding gate – double barriers: The control board 3414 can be used in double sliding gates + barriers, since it provides input for terminal switches (terminals 24-25-26 for the motor 1) and (27-28-29 for the motor 2).

Photocell Power Supply:

JUMPER J1. When Jumper 1 is on 2 up positions, the power supply of photocells is 12VDC. When it is on 2 down positions, the power supply is 24VDC. (MAX 200mA).

Photocell 2:

(terminals 15-17). It freezes the movement when it is activated. The yellow indicating LED PHOTO 2 is ON when the contact is close. The LED is OFF when the contact is open.

Photocell 1:

(terminals 16-17) While the gates are closing and photocell contact is activated, the gates are stopped and opened. The yellow indicating LED PHOTO 2 is ON when the contact is close. The LED is OFF when the contact is open.

External Button:

There are 2 external buttons.

Button 1+2 in terminals 18+17 activate both motors.

Button 1 in terminals 17+20 activates ONLY the motor 1.

Auto Close Adjustment

There is a double counter in the A/C function. The first one is 120 seconds and is applied when the door stops after an open function. During this counting time of 120 sec., if the photocell beam is disturbed, then after the beam is free, the A/C counting time becomes 10 sec. until the fully closed position. In this control panel, the second counting time of 10 sec., can be regulated. Press the TIME 1 button, keep it pressed and within 1 sec., press the CODE button. The red indicating light starts flashing, indicating the seconds of the counter. The time of the counter is from 1-120 seconds. Keep it pressed for the time you wish to give in A/C and pedestrian function. The dipswitch 3 needs to be ON.

Light/Flash

In terminals 4+5 flash lamp is connected. Below 2 different functions :

- **Flash** (Default Function). The light is flashing for as long as the motor moves

- **Steady light (3 minutes). The light is turned on steadily for 3 minutes after the last command**

For switching the different functions: Cut off the power supply. Press the button CODE and TIME 1 together and Turn ON the power supply. The RED indicating LED is steadily ON, the function is changed.

Deceleration Change

In case of heavy motors, adjust the DECELERATION power as follows:

Cut off the power supply. Press the buttons CODE, TIME 1 and TIME 2 at the same time. Pressing the three button together, power ON the power supply. The LED indicating is steadily ON and the DECELERATION power has been changed. Release the three buttons and use the Deceleration Trimmer to adjust the power of deceleration.

