

WARNING: After learning the first code the system will only accept that code family (if the first is Rolling all the others will have to be Rolling).

MEMORY RESET

For cancelling all codes, press and hold the P1 button (red led prog will turn on) until the LED turns off again. When the button is released, the LED flashes.

WORKING TIME SETUP FOR 2 LEAFS GATES

MAKE SURE THE GATE IS CLOSED

SET DIP10 SW1 TO OFF

Turning the DIP1 SW1 to "ON" enables the self-learning timing:

Pressing the START or the first channel of a previously learned remote control starts opening the gate (otherwise reverse the terminals 1-2 and 3-4 wires). From this point on, the microprocessor starts to count the working time (programming LED lights up)

The first leaf starts opening, after desired displacement time, press the TX to start the second leaf, when the first leaf arrives at the desired position, give another "START" command and it stops. When the second leaf arrives in the desired position give another "START" command and it also stops (if electrical or mechanical limit switches are used and obstacle sensing is enabled, there is no need to give a start impulse when the leafs have opened). Flashing lamp lights off and from this moment the board counts the automatic closing time. When you think enough pause time has passed, press "START": the second leaf start closing, once the displacement time has passed, give another START signal and also the first leaf starts closing. When the second leaf arrives at the desired position give another "START" command to stop it. When the first leaf arrives at the desired position give another "START" command and it also stops (if electrical or mechanical limit switches are used and obstacle sensing is enabled, there is no need to give a start impulse when the leaf has closed). The flashing lamp lights off. Programming LED flashes. It is necessary at this point to put the DIP1 to the "OFF" position (the LED goes off). Now everything is ready to be able to start the opening gate again.

The control unit is also designed to handle the partial opening (pedestrian) via the 2nd channel of the remote control, previously memorized, or the PEDESTRIAN START input.

To program the pedestrian time, repeat setup as above using the pedestrian start input or the 2nd button of the TX.

WORKING TIME SETUP FOR 1 LEAF GATES

MAKE SURE THE GATE IS CLOSED

SET DIP10 SW1 TO ON

Turning the DIP1 SW1 to "ON" enables the self-learning timing:

Pressing the START or the first channel of a previously learned remote control starts opening the gate (otherwise reverse the terminals 1-2). From this point on, the microprocessor starts to count the working time (programming LED lights up)

The leaf starts opening. When it arrives at the desired position, give another "START" command and it stops. (if electrical or mechanical limit switches are used and obstacle sensing is enabled, there is no need to give a start impulse when the leaf has opened). Flashing lamp lights off and from this moment the board counts the automatic closing time. When you think enough pause time has passed, press "START": the leaf start closing. When it arrives at the desired position give another "START" command and it stops (if electrical or mechanical limit switches are used and obstacle sensing is enabled, there is no need to give a start impulse when the leaf has closed). The flashing lamp lights off. Programming LED flashes. It is necessary at this point to put the DIP1 to the "OFF" position (the LED goes off). Now everything is ready to be able to start the opening gate again.

WARNINGS

When wiring and inserting the Radio Module, the equipment must not be powered.

The use of this equipment must strictly follow and comply with the technical standards of reference. Installation and / or maintenance must only be carried out by qualified personnel in accordance with applicable laws. The manufacturer can not be held liable for any damage caused by improper use and / or unreasonable use. Improper installation or incorrect use of the product may compromise the safety of the system, all the materials present in the packaging must not be left to the reach of children as a source of danger.

DISPOSAL: keep the product out of the reach of children. Do not throw the 'apparatus together with ordinary municipal waste as a symbol marked on the product. (European Directive 2002/96/EC)



And 'the responsibility of the owner dispose of electrical product collection centers according to the specifications of public bodies.

EC DECLARATION OF CONFORMITY

Below, we declare that the product meets all the requirements for the type of product required by the regulations and directives 2004/108/EC, 2006/95/EC, through the use of standards published in the Official Journal of the European community:

SFT norm: EN 60950:2006

Norma SFT:

EMC norm: EN301489-3 V1.4.1

EMC standard:



It also declares that it is forbidden to put the above-mentioned products on the market before the machine has these rules and it is found to comply with the conditions required by Directive 89/392 EEC and national laws applies, that is, until the material, to which this declaration , does not form a whole with the final machine.



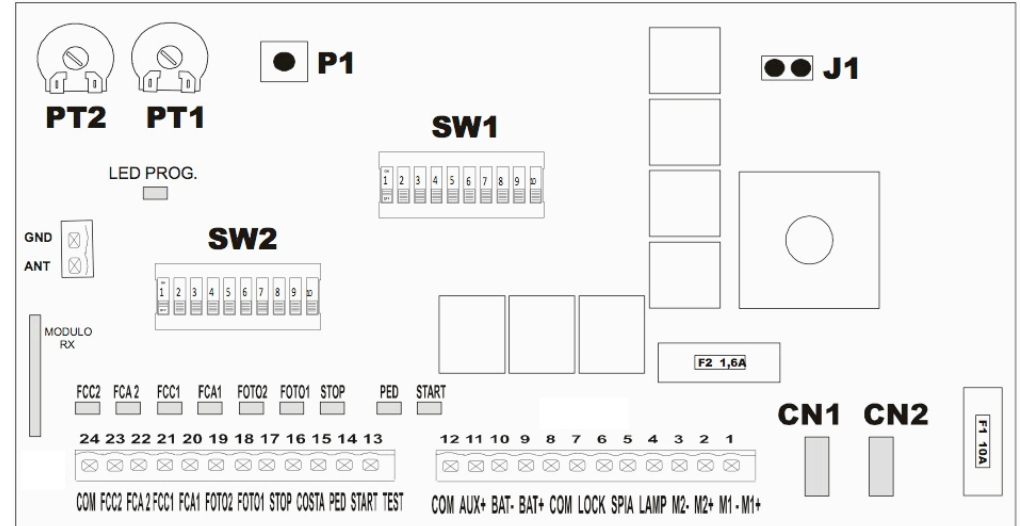
QK-CE24BATR V02

The **QK-CE24BATR** electronic equipment is designed for automation of **LOW VOLTAGE 12V or 24V DC motors**. For swinging and sliding gates.

INSTALLATION NOTES

1) Before proceeding with installation, a thermal or differential magnet switch with a maximum capacity of 10A must be set upstream of the system. The switch must ensure omnipolar separation of the contacts, with an opening distance of at least 3 mm

2) Differentiate and separate power cables (minimum section 1.5mm²) from signal cables that can be 0.5mm².



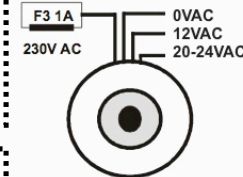
SIGNAL LED'S:

All inputs on the M2 terminal block are filtered by optoisolators that eliminate low voltage disturbs. If a dip-switch input is excluded, the corresponding LED will not light up, but if it is not connected to a terminal block with a bridge on the "com", this will light up.

TECHNICAL FEATURES

- 12Vac or 24Vac electronic board power supply
- 230Vac toroidal transformer supply
- 12Vcc electric lock
- Courtesy light 12Vdc or 24Vdc
- No. of motors: 1 or 2 Max 150W total
- Battery 12Vdc or 24Vdc
- Flashing: 12Vdc or 24Vdc
- 12Vdc or 24Vdc lamp
- Photocells: 12Vdc or 24Vdc
- Operating temperatures -20 + 55 ° C

TRANSFORMER CONNECTION:



TRANSFORMER

AUTOMATION 12V = J1 CLOSED
DIP9 SW2 = ON

FASTON CN1 = 0VAC WIRE
FASTON CN2 = 12VAC WIRE

AUTOMATION 24V = J1 OPEN
DIP9 SW2 = OFF

FASTON CN1 = 0VAC WIRE
FASTON CN2 = 24VAC WIRE

CAUTION: For 24V systems, if a transformer other than that provided by the factory (recommended) is used, the power Of the output on the secondary must NOT exceed 24 VAC. The power output must NOT be less than 150VA

CONNECTIONS TO TERMINAL BLOCKS

- 1 .. MOTOR 1 POSITIVE INPUT N.1 (pedestrian)
- 2 .. MOTOR 1 NEGATIVE INPUT N.1 (pedestrian)
- 3 .. MOTOR 2 POSITIVE INPUT N.2
- 4 .. MOTOR 2 NEGATIVE INPUT N.2
- 5 .. FLASHING LAMP / COURTESY LIGHT OUTPUT
- 6 .. OPEN GATE LAMP OUTPUT
- 7 .. ELECTRIC LOCK CONNECTION. SEE APPOSITE PARAGRAPH
- 8 .. COMMON OUTPUT FOR FLASHING LAMP / OPEN GATE LAMP / ELECTRIC LOCK
- 9 .. POSITIVE INPUT FOR BACKUP BATTERY
- 10 .. NEGATIVE INPUT FOR BACKUP BATTERY
- 11 .. POSITIVE OUTPUT + 12 / 24VCC FOR ACCESSORIES POWER SUPPLY
- 12 .. COMMON OUTPUT FOR LAMP AND OPEN GATE LAMP

M2

- 13 .. PHOTOCELL TEST AND EMERGENCY CONTROLS
- 14 .. START INPUT (NO contact)
- 15 .. PEDESTRIAN START INPUT (NO contact)
- 16 .. SAFETY EDGE INPUT (NC contact)
- 17 .. STOP INPUT (NC contact)
- 18 .. PHOTOCELL INPUT N.1 (NC contact)
- 19 .. PHOTOCELL INPUT N.2 (NC contact)
- 20 .. M1 OPENING LIMIT SWITCH (NC contact)
- 21 .. M1 CLOSING LIMIT SWITCH (NC contact)
- 22 .. M2 OPENING LIMIT SWITCH (NC contact)
- 23 .. M2 CLOSING LIMIT SWITCH (NC contact)
- 24 .. COMMON OUTPUT FOR PHOTOCELLS - START - STOP – LIMIT SWITCHES

M3

- 25 .. ANTENNA POSITIVE INPUT
- 26 .. ANTENNA NEGATIVE INPUT

IMPORTANT: J1 MUST BE CLOSED FOR 12VDC MOTORS
J2 MUST BE OPEN FOR 12VDC MOTORS

DIP SW1 MANAGEMENT Do the settings when gate is closed

DIP	ON	OFF
DIP1	Learning Time	Normal operation
DIP2	Hold to run command function enabled	Hold to run command function disabled
DIP3	Step by step without automatic closing	Automatic closing enabled
DIP4	Community mode: after the first opening start signal the gate doesn't accept other start signals. Gate will close automatically.	Community mode disabled
DIP5	Function for engaging electrical lock (2 seconds at maximum pressure at the end of closing) enabled.	Function for engaging electrical lock disabled.
DIP6	Obstacle sensing function will stop the gate and reverse it for 3 seconds when detecting obstacle	Obstacle sensing function will stop the gate when detecting obstacle
DIP7	Slow down time = 3 seconds	Slow down time = 5 seconds
DIP8 e 9	Slowdown Rate See table below	Slowdown Rate See table below
DIP10	1 leaf gate functioning	2 leafs gate functioning

SLOW DOWN TABLES

DIP8 - DIP9 SW1 Do the settings when gate is closed

- Off - Off = Slow down is disabled
- On - Off = High slow down
- On - On = Medium slow down
- Off - On = Low slow down

DIP SW2 MANAGEMENT Do the settings when gate is closed

DIP	ON	OFF
DIP1	Disables M2 closing limit switch input (FCC2)	Enables M2 closing limit switch input (FCC2)
DIP2	Disables M2 opening limit switch input (FCA2)	Enables M2 opening limit switch input (FCA2)
DIP3	Disables M1 closing limit switch input (FCC1)	Enables M1 closing limit switch input (FCC1)
DIP4	Disables M1 opening limit switch input (FCA1)	Enables M1 opening limit switch input (FCA1)
DIP5	Disables FOTO2 (opening and closing photocell)	Enables FOTO2 (opening and closing photocell)
DIP6	Disables FOTO1 (closing photocell)	Enables FOTO1 (closing photocell)
DIP7	Disables STOP input	Enables STOP input
DIP8	Enables rapid re-closing after 3"	Disables rapid re-closing
DIP9	Setting Battery Voltage = 12 VDC	Setting Battery Voltage = 24 VDC
DIP10	Enables Courtesy Light + 3 Minutes on Terminal 5	Disables Courtesy Light

OBSTACLE SENSING ADJUSTMENTS (default set to half threshold)

Rotating the PT1 and PT2 trimmer clockwise increases the obstacle sensing of the respective motor. (From 0.5 to 7.0 A).
PT1 = M1 / PT2 = M2

The operation of the amperometric in both opening and closing causes the immediate stop of the movement or anti-crash with release of the obstacle (function selectable with DIP6 SW1)

If slowdowns are used, during this phase, the obstacle sensing is automatically set to fixed values so as not to risk false operations.

If the system is not equipped with electrical limit switches, set DIP6 SW1 to ON. This is to avoid the risk that the ground stopper or the meachnical limit switch of motor is detected as an obstacle.

To disable obstacle sensing function rotate PT1 and PT2 totally clockwise.

CONNECTING ELECTRIC LOCK TO 12V SYSTEMS WITH OR WITHOUT BATTERY:

Connect the two ends of the electric lock to terminal 7 "lock" and to terminal 8 "com"

CONNECTING ELECTRIC LOCK TO 24V SYSTEMS WITHOUT BATTERY:

If we have a 12V electric lock on 24V systems connect a pole of the electrical lock to terminal 7 "Lock" and the other pole on the transformer (12V) wire.

CONNECTING ELECTRIC LOCK TO 24V SYSTEMS WITH BATTERY:

If we have a 12V electric lock on 24V systems, connect an electric lock pole to terminal 7 "lock" and the other pole on the two battery series (= 12V).

TEST INPUT

In the programming phase, a photocells presence and operation control is performed: this is done by removing power from photocell TX (must be powered by the POSITIVE terminal 13)

If the presence of the photocells is detected during this phase, the control unit controls the proper functioning of the photocells before each gate movement. In the event that the photocells are not present at time of programming, but there was a closing jumper or otherwise powered, the control panel does not perform controls by automatically excluding the input.

BATTERY INPUT

The control unit is equipped with a battery input directly supervised by the micro-controller which determines its vitality; The charging cycle starts if it reads the battery discharge value, otherwise the battery is not charged to prevent abnormal use. We recommend that you use 12V 2 or 7 Ah rechargeable batteries. In the 24V version use two batteries in series.

WATCH FUNCTION

Using terminals 14 and 24, you can connect a TIMER to program programmed gate openings.

The timer contact must be NO type and must remain closed for as long as the gate remains open.

If there is already a connection to terminal 14, connect it in parallel.

AUTOMATIC CLOSURE ON POWER RETURN

If automatic closing is enabled and, before removing electricity or electricity black out is faced, the gate was not closed, once the control board is powered again, it will automatically close the gate.

PREFLASHING

Pre-flashing function is fixed at 3 seconds

OPEN GATE LAMP

Closed Gate = Lamp is Off

Gate not closed = Lamp is On

SAFETY EDGE INPUT

The control unit is predisposed for controlling safety edges. On this input you can connect either the NC or the 8k2 inductive safety edges. The controller during the time learning phase controls the input, if there are any connected safety edges, it stores both mechanical and inductive values. If you do not connect any type of safety edge, bridge the "COSTA" input with terminal 24 "com".

RAPID CLOSING FUNCTION:

This function allows you to reduce the pause time to 3 seconds from the operation and release of the photocells. To enable this function, bring DIP8 SW2 to the ON position.

REMOTE CONTROL CODE LEARNING (ATTENTION: TO BE PERFORMED WHEN THE GATE IS CLOSED ONLY)

Press the P1 key, the "prog" programming LED lights up to indicate that the control panel is ready to learn a remote control (regardless of the type DIP or Rolling-Code code). Now you can press one of the keys of a transmitter (1-3 or 4). Button 2 only for pedestrian start. The prog led on the board gives a blink to confirm the remote control code is stored correctly. Wait until the prog led lights off and start using the remote control. If you have other remotes codes to store, do it in the same procedure before the prog led lights off or repeat sequence again.