

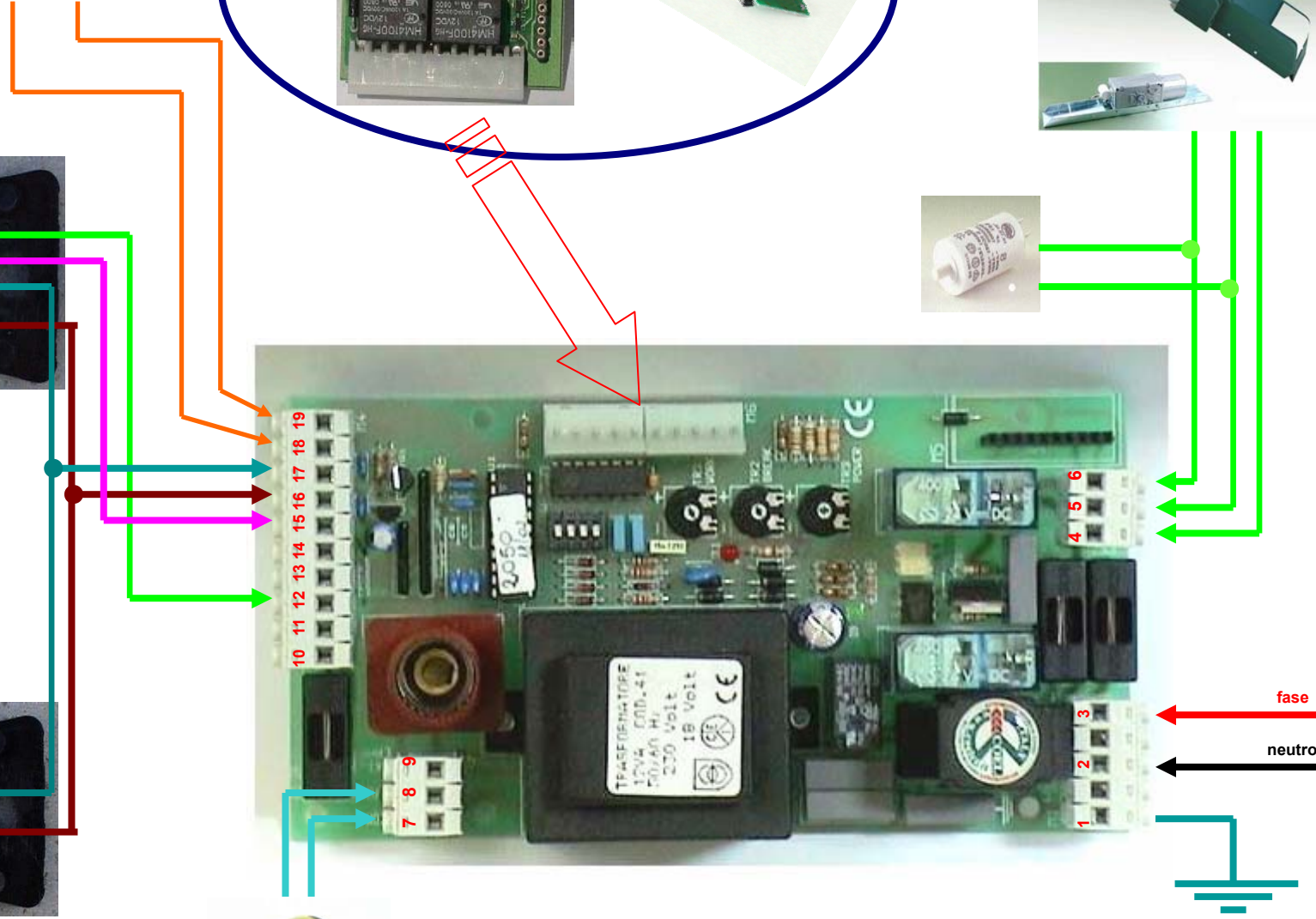
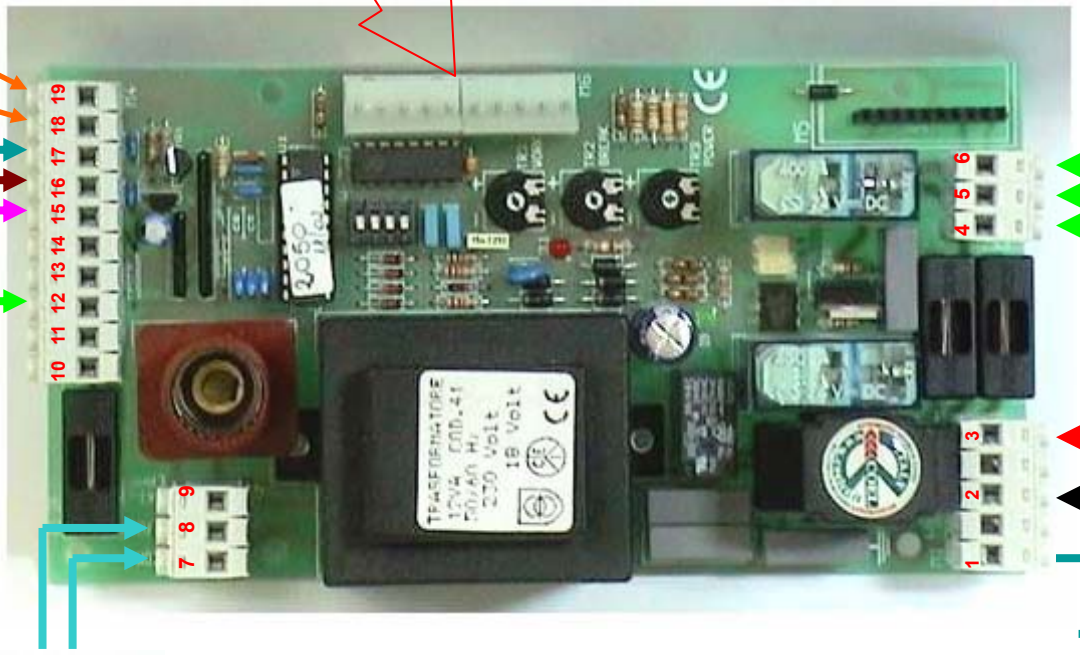
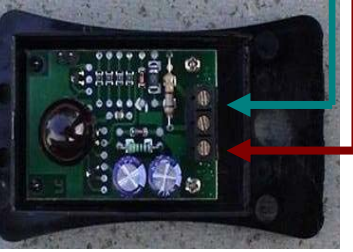
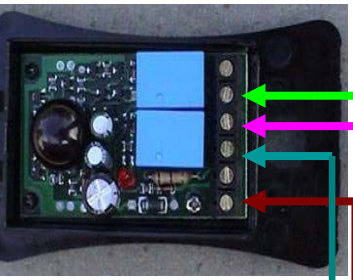
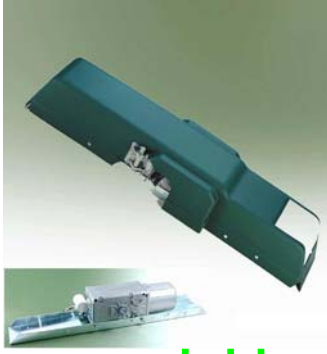
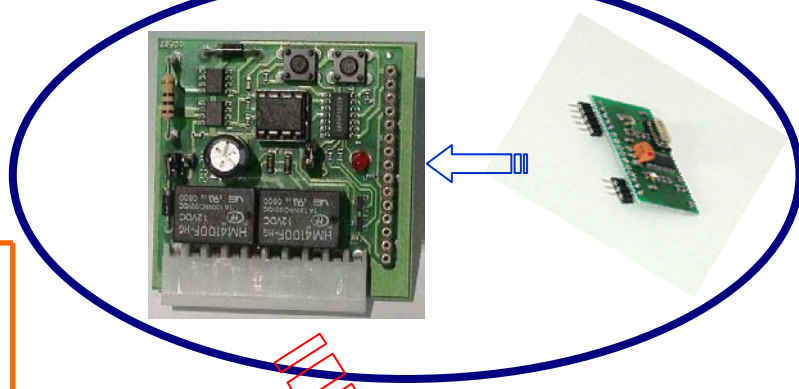
# CONTROL PANEL INSTALLATION MANUAL

## BASC/2002

- The PCB Basc/2002 is a electronic control board used for overhead swing garage motors with or without clutch. It is strong and reliable. Its reduced dimensions allow the insertion of the unit inside the motor. The introduction in IP55 containers is not provided.
- It is arranged for the use of a timer to be connected to the START input for programmed opening and closing. Free from interference and protected against atmospheric and electrostatic discharges.
- The control board Basc/2002 has succeeded all tests concerning the electromagnetic emissions and the immunity to the interference as provided by the European rules in force.
- It conforms to the directives EMC 89/336/CEE, 92/31/CEE, BT 73/23/CEE and 93/68/CEE

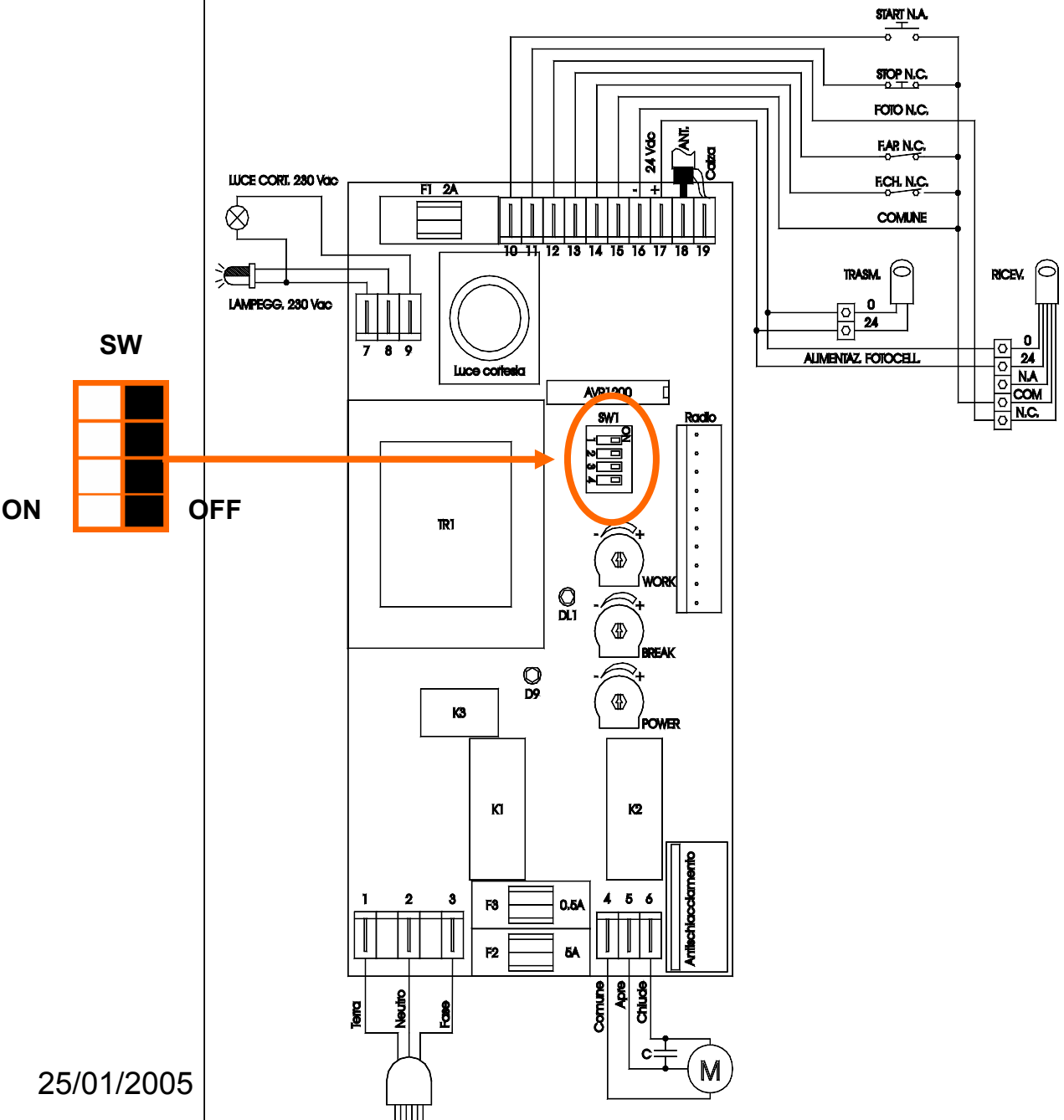
# SUGGESTIONS ON THE CONTROL PANEL INSTALLATION

- The installation must be done by specialized technicians, in compliance with the local, national and European regulations in force (UNI 8612) as well as to the instructions quoted on this manual. The installer must verify the type of system and if necessary connect security devices (differential and magnetothermic switches) which comply with the current regulations. The manufacturer declines any responsibility for damages to people or things caused by wrong installations, improper and unreasonale usages,tampering as well as by non observance of the current regulations.
- Protect the control board with a 6A automatic switch or with a 16A monophas switch and fuses. Make sure that the ground wire (terminal 1) is properly connected to the ground dispenser of the system. It is necessary to respect the phase and neutral polarity in the 230V a.c. power supply line (terminal 3= phase, terminal 2= neutral). The minimum section required for the power circuits (motors and blinker outputs) is 1,5 mmq. Always use separated connection for auxiliary and control (inputs) power ciurcuits in order to avoid interferences or damages caused by unduced tensions (do not use only one multipolar wire). In case of lines longer than 50 mt it is advisable to mismatch the control circuits with some relays in the control board. If the n.c. inputs (limitswitches, photocells, stop button) are not used they have to be connected to the common (terminal 15) through jumpers.
- After installing all the security and electrical devices (buttons, photocells, blinkers, etc.) and having done all the electrical connections, power up the control unit and check the following:
- Remember that the inputs which are not used have to be jumpered. If led DL1 (red) is not on, check that the 230V a.c. power tension arrives to the terminal 2 and 3, also control the fuses integrity and if necessary replace them with others of the same capacity.
- **After starting the motors make sure that they can be stopped with a force no higher than 150N ( about 15 Kg) according to the UNI 8612 regulations. If necessary, adjust the force through the POWER trimmer.**



25/01/2005

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Electrical chart BASC 2002, wiring and position ON OFF of the SW.

# TECHNICAL FEATURES

Power supply / Frequency	220 /230V A.C. 50/60 H Z
Dimensions	mm 87 x 170 x 50
Motor output	700 W max
Absorption at rest	3 W
Blinker Power	40 W max – 230V A.C.
Courtesy Lamp Power	40 W max – 230V A.C.
Fuse (unit protection) (F1)	2 A – 250 V
Fuse (motor protection) (F2)	5 A – 250 V
Fuse (Blinker / Courtesy Lamp) (F3)	0,5 A – 250 V
Power (motor force adjustment)	50% - 98%
Anti-Crushing	Arranged to the use of the anti-crushing module.
Opening and Closing work time	3 – 60 seconds
Automatic Closing Time BREAK TIME	3 – 75 seconds
Max Start Power in opening cycle (fixed)	2 seconds
Final Stroke (fixed)	2 seconds
Working Temperature	20° C + 50° C

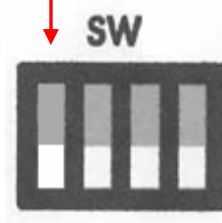
# DIP SETTING

- **WARNING: all the adjustments must be carried out with the door in close position. After the dip-switch programming it is necessary to turn off the control board first and then turn it on again in order to activate the new adjustments.**

# START POWER

By setting the dip 1 of SW in ON (see picture below), the start power is activated as the two motors start, it lasts 2 seconds

By setting the dip 1 of SW in OFF the start power is deactivated.



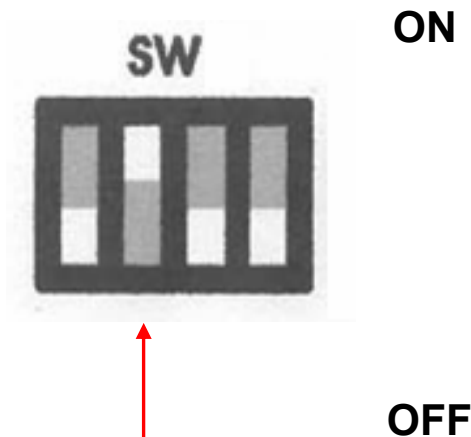
ON

OFF

# WORKING CYCLE CHOICE

By setting the dip 2 of SW in ON the automatic function is activated. The door, soon after an opening impulse, will carry out the complete cycle open/stop/close.

By setting the dip 2 of SW in the OFF position the step by step function will be activated. That is by giving one, two, three, four,... impulses the door will carry out first the opening cycle; when the second impulse is given the door will stop, when the third one is given the door will start closing and when the fourth is given the door will open again...

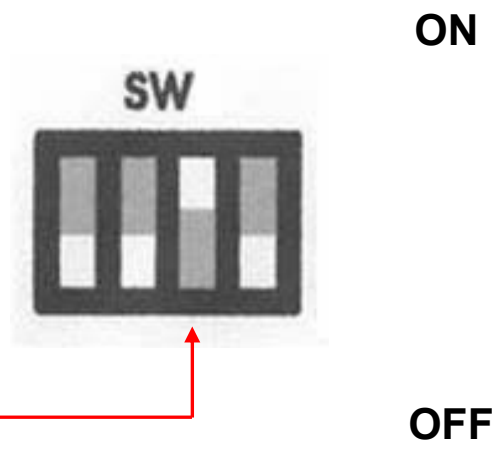




# FINAL STROKE ACTIVATED

By setting the dip 3 in the ON position the final stroke is activated, it gives full force to the motor for 2 seconds at the end of the closing cycle.

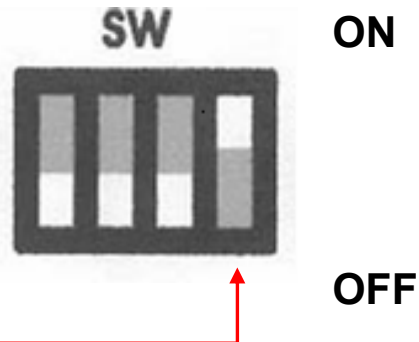
If the dip 3 of SW is on the OFF position the final stroke remains deactivated



# PRE-BLINKING FUNCTION

the ON position of dip 4 of SW activates the pre-blinking function (the blinker is activated 3 seconds before the motor start).

When the dip 4 of SW is in the OFF position the pre-blinking function is deactivated (the blinker gets activated at the same time of the motor).



# OPENING/CLOSING TIME ADJUSTMENT

The working time can be adjusted through the trimmer **WORK** between 3 and 60 seconds. The working time has to be set up so that the motor remains powered up for a two three seconds seconds after the end of the opening or closing cycle of the door.

# **AUTOMATIC CLOSING TIME ADJUSTMENT (BREAK TIME)**

Make sure that the dip 2 of SW is on the ON position. Adjust the trimmer BREAK to modify the automatic closing time (break time). It is possible to change it from a minimum of 3 to a maximum of 75 seconds.

Set the dip 2 of SW on the OFF position to exclude the automatic closing.

## ***POWER ADJUSTMENT***

Use the trimmer POWER. Adjust the force according to the UNI 8616 regulations.

# ***ANTI-CRUSHING MODULE***

## ***(OPTIONAL)***

- An anti-crushing module is available optionally to be installed on the control unit. This device works both in opening and closing and in case of any crush of the door against an obstacle, it reserves the movement for two seconds and then stops. The unit indicates the module operation is indicated with a quick flashing of led D9 (green).
- The door will start the opening only when the obstacle is removed and the start command is pressed. For the function of the anti-crushing module it is necessary to install the closing and opening limit switches.

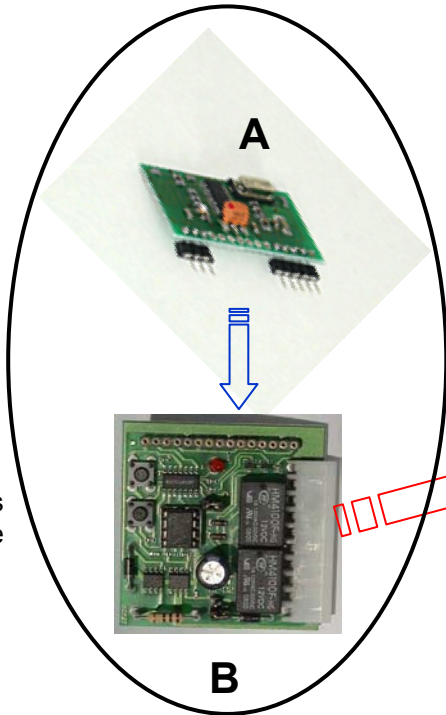
# RADIO CODES PROGRAMMING

Operations of inserting a new code into the memory and cancelling the whole list of codes can be carried out on the receiver. This last one is made (see picture on the low left) from the union of items A e B.

## Programming

1. Power up the receiver correctly (see below picture).

RECEIVER: is made of item A inserted in item B



THE RECEIVER is then inserted in the control panel C.

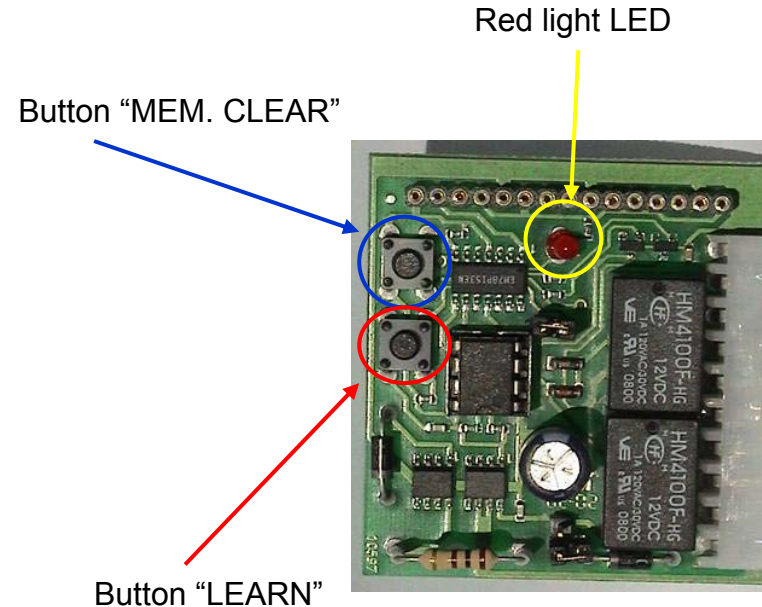
C



# RADIO CODES PROGRAMMING

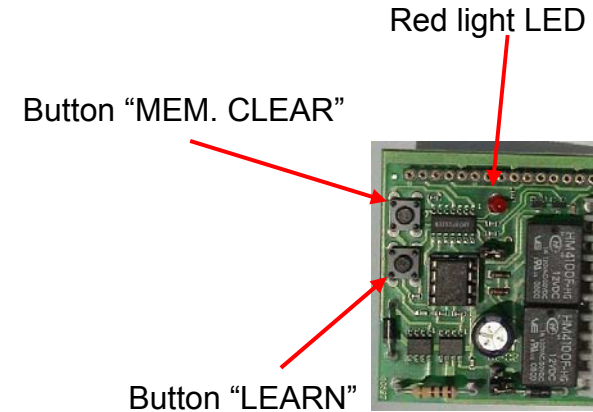
2. To program a code on the *first channel*, press shortly the button “LEARN”: the red LED lights on indicating that programming is in progress. Carry out a transmission by pressing any button of the remote control. The code is inserted into the memory. At the end the LED returns to the non-lighting state.

3. To program a code on the second channel, keep pushed the “LEARN” button: the red light LED switches off and switches on. Release the button, and the LED light switches on again. Do a transmission activating the transmitter (Microkey/R, 14401 Keypad, Remote control) that you want to memorize. The code has been learned. At the end the LED goes back to non-lighting phase.



# RADIO CODES PROGRAMMING

4. Memorise all the transmitters repeating operations 2. or 3.
5. After the “LEARN” button pressure, exit from the programming comes about automatically if no transmitter button is pressed within 15 seconds.
6. The codes remain in the memory even if the receiver’s power supply is cut.



IF MORE THAN ONE ACTIVATOR IS MEMORIZED (Microkey/R, 114401 keypad, Remote control etc.) THE PROGRAMMING MUST ALWAYS START WITH THE REMOTE CONTROL, OTHERWISE THERE COULD BE SOME EXCLUSIONS.

## **Total cancellation codes**

1. Press and keep pressed the “MEM. CLEAR” button till the LED red light starts flashing.
2. The confirmation is given as soon as the LED stops flashing.





# RADIO CODES PROGRAMMING

<b>TECHNICAL FEATURES</b>	
<b>Power supply</b>	<b>12 - 24 Vac/dc</b>
<b>Average Work/Rest consumption</b>	<b>25 mA/45 mA</b>
<b>Reception frequency</b>	<b>433.920 MHz</b>
<b>RF bandwidth at S3dB</b>	<b>± 250 kHz (p.n 2-5000748)</b>
<b>Sensitivity</b>	<b>-100 dBm (p.n 2-5000748)</b>
<b>Code</b>	<b>Digital at 54 bit</b>
<b>Number of codes that can be memorized</b>	<b>312</b>
<b>Number of outputs</b>	<b>1 / 2</b>
<b>Contact rating relay</b>	<b>1 A @ 120 Vac/30 Vdc</b>
<b>Signals</b>	<b>Red led</b>
<b>Working temperature</b>	<b>-10/+55 °C</b>
<b>Storage temperature</b>	<b>-40/+85 °C</b>
<b>Size / Weight</b>	<b>50 x 51 x 17 mm 40g</b>