B.RO4CM2CT

Interface board to control the synchronized movement of 2 motors for sliding gates

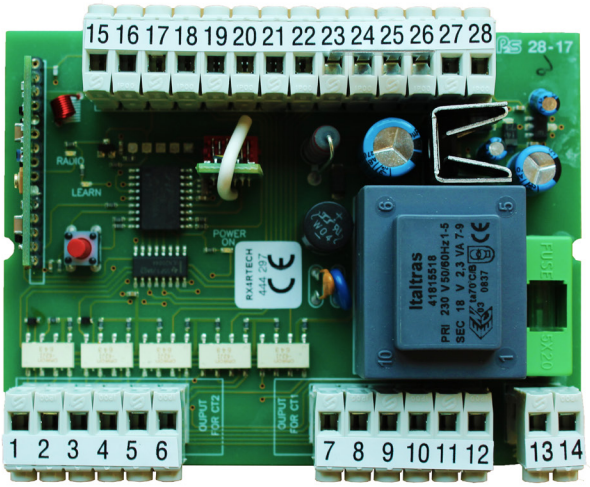
6-1621987 Rev.4 16/09/2021

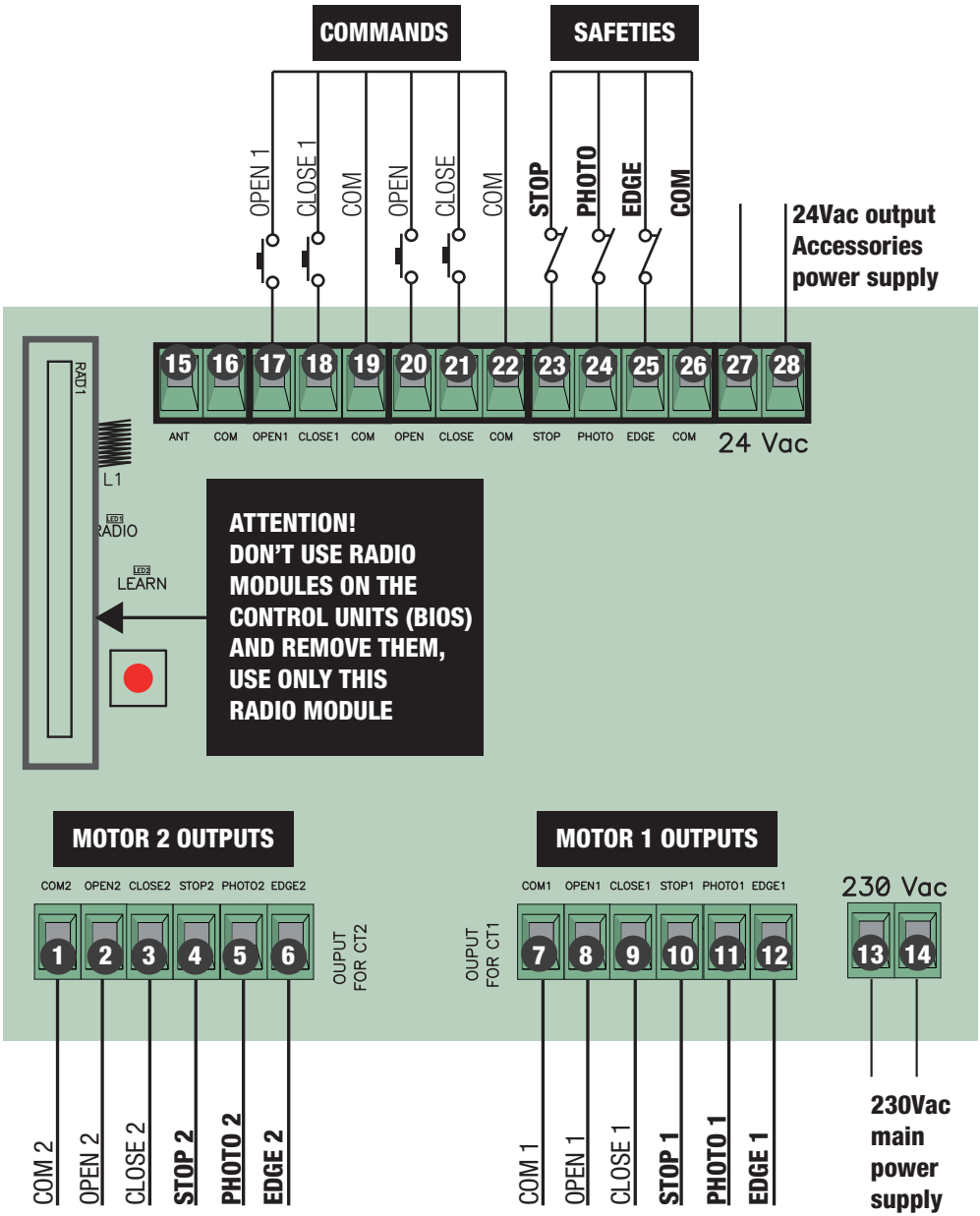
This board is compatible with the follwing control units, please refer aslo to the control units instructions

BIOS1	61622241
BIOS1 24	61622400
ERMES B1EE NEW	61622158
SCOR.AS	61622378

1. DESCRIPTION

B.RO4CM2CT interface board enables to control 2 control units at the same time with a sole command received from a transmitter or from a wired button. The control unit has also safety edge and photocell inputs.




COMMANDS
SAFETIES
OPEN 1
CLOSE 1
COM
OPEN
CLOSE
COM
STOP
PHOTO
EDGE
COM
24Vac output
Accessories
power supply
15 16 17 18 19 20 21 22 23 24 25 26 27 28
ANT COM OPEN1 CLOSE1 COM OPEN CLOSE COM STOP PHOTO EDGE COM
24 Vac
RADIO
L1
LED1
RADIO
LED2
LEARN
ATTENTION!
DON'T USE RADIO
MODULES ON THE
CONTROL UNITS (BIOS)
AND REMOVE THEM,
USE ONLY THIS
RADIO MODULE
MOTOR 2 OUTPUTS
COM2 OPEN2 CLOSE2 STOP2 PHOTO2 EDGE2
1 2 3 4 5 6
OUPUT
FOR CT2
MOTOR 1 OUTPUTS
COM1 OPEN1 CLOSE1 STOP1 PHOTO1 EDGE1
OUPUT
FOR CT1
7 8 9 10 11 12
230 Vac
13 14
COM 2
OPEN 2
CLOSE 2
STOP 2
PHOTO 2
EDGE 2
COM 1
OPEN 1
CLOSE 1
STOP 1
PHOTO 1
EDGE 1
230Vac
main
power
supply

2. ELECTRICAL CONNECTIONS

OUTPUT CONNECTIONS FOR THE CONTROL UNIT 1 / MOTOR 1

- Connect the output COM 1 (clamp 7) to the input COM of the control unit 1
- Connect the output OPEN 1 (clamp 8) to the input OPEN or STEP-BY-STEP of the control unit 1
- Connect the output CLOSE 1 (clamp 9) to the input CLOSE or PEDESTRIAN of the control unit 1
- Connect the output STOP 1 (clamp 10) to the input STOP of the control unit 1
- Connect the output FOTO 1 (clamp 11) to the input FOTO of the control unit 1
- Connect the output EDGE 1 (clamp 12) to the input EDGE of the control unit 1

OUTPUT CONNECTIONS FOR THE CONTROL UNIT 2 / MOTOR 2

- Connect the output COM 2 (clamp 1) to the input COM of the control unit 2
- Connect the output OPEN 2 (clamp 2) to the input OPEN or STEP-BY-STEP of the control unit 2
- Connect the output CLOSE 2 (clamp 3) to the input CLOSE or PEDESTRIAN of the control unit 2
- Connect the output STOP 2 (clamp 4) to the input STOP of the control unit 2
- Connect the output FOTO 2 (clamp 5) to the input FOTO of the control unit 2
- Connect the output EDGE 2 (clamp 6) to the input EDGE of the control unit 2

INPUT INTERFACE CONNECTIONS B.RO4CM2CT

Connect the wired buttons to the interface considering the following:

- The input OPEN activates contemporarily the output OPEN 1 and OPEN 2
- The input CLOSE activates contemporarily the output CLOSE 1 and CLOSE 2
- The input OPEN 1 activates the output OPEN 1
- The input CLOSE 1 activates the output CLOSE 1
- The input STOP activates contemporarily the output STOP 1 and STOP 2
- The input PHOTO activates contemporarily the output FOTO 1 and FOTO 2
- The input EDGE activates contemporarily the output EDGE 1 and EDGE 2
- Connect the receiver antenna to the clamp 15 and the earth (braiding) of the antenna to the clamp 16
- Supply power to the interface between the clamp 13 and 14 with a tension of 230 Vac

ATTENTION! Remove the radio module of the control units to be interfaced and memorize the transmitters directly on the interface. We recommend to set the working of the inputs of the control unit which are to interface in the modality OPEN-CLOSE (in place of the modality step-by-step and pedestrian) if possible.

3. LEARNING SEQUENCE FOR BUTTONS

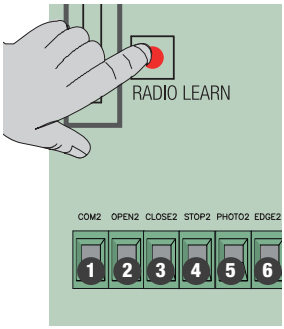
This interface is equipped with a receiver, which allows to memorize 4 buttons. The memorized buttons have the following functions:

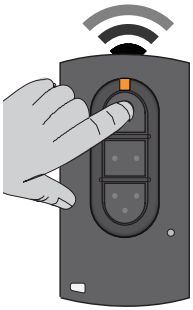
- The first memorized button will contemporarily activate the outputs OPEN 1 and OPEN 2
- The second memorized button will contemporarily activate the outputs CLOSE 1 and CLOSE 2
- The third button will activate the output OPEN 1
- The forth button will activate the output CLOSE 1

These outputs can be connected to the control units and allow both a simultaneous control of the gates (thanks to the first and second memorized buttons) and the control of one of the two control units (thanks to the third or forth memorized button). The working type of the receiver is DEAD MAN and therefore the output remains active for the time the button of the transmitter is pressed.

4. HOW TO MEMORIZE THE CODE OF A TRANSMITTER

1. Supply power between the clamps 13 and 14.
2. You can carry out two different types of procedures for activating the learning modality (the led will turn on permanently):
   a. Press the learning button of the interface for a moment, the led 1 will turn on fix.
   b. Press the hidden button of an already memorized transmitter, the led 1 will turn on fix.
3. Press the button of the transmitter you want to learn the code, the led carries out 2 flashes and afterwards turns off.
4. For memorizing the following button of the transmitter repeat the procedure starting from point 2. Carry out the learning of the transmitter by following the sequence described on paragraph 3.
5. Repeat the sequence of the operations starting from point 2 to point 4 for all transmitters to learn.





5. HOW TO MEMORIZE THE CODES OF MORE TRANSMITTERS (MULTIPLE LEARNING)

1. Supply power between the clamps 13 and 14.
2. Press the learning button for 3 seconds, afterwards release the button. The receiver indicates the entrance in the multiple learning with two flashes, afterwards it turns on permanently.
3. Press the buttons of the first transmitter to by flashing two times the correct learning with the pressed button by flashing two times.
4. By pressing the remained buttons of the transmitter to memorize, the learning of the respective codes will be carried out.
5. For leaving the multiple learning press the button of the receiver for a moment. The led 1 turns off.

6. HOW TO CANCEL ALL CODES OF THE TRANSMITTERS

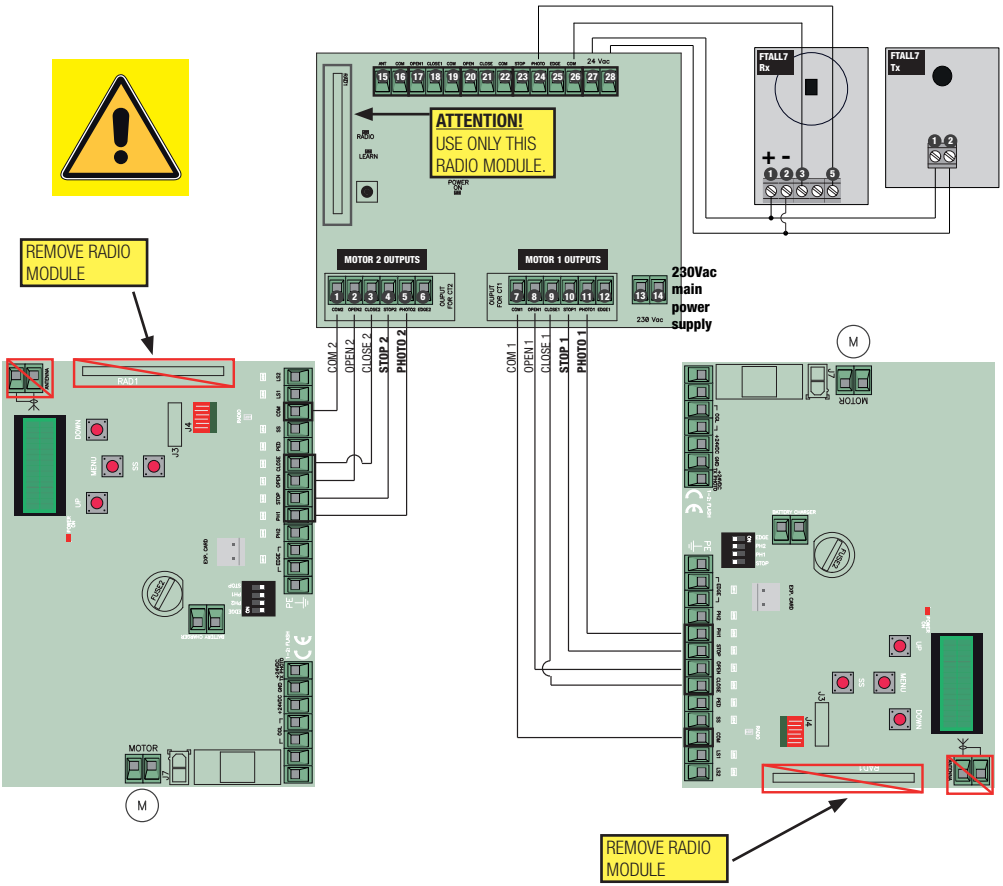
1. Cut off power supply from the receiver's card.
2. Keep pressed the learning button and supply power again to the receiver: the led1 turns on after approximately 3 seconds.
3. Release the button of the receiver.
4. All codes are cancelled when the led turns off.

7. DIAGNOSIS OF RADIO INTERFERENCE

The receiver is equipped with a led (LED 2) for the diagnosis of the radio: the installer is able to find out immediately if there are radio disturbs which could influence negatively the maximum range of the radio. Check the presence of disturbs between a transmission and the other considering the following table:

Led turned OFF	no disturbs
Led flashing	light disturb
Led always turned ON	presence of heavy disturb

8. CONNECTION OF THE BOARD B.RO4CM2CT WITH TWO BIOS1



9. PRODUCT DISPOSAL

This product is an integral part of automation, and therefore must be disposed of together with it. As with installation operations, even at the end of the life of this product, dismantling operations must be carried out by qualified personnel. This product consists of various types of materials: some can be recycled, others must be disposed of. Find out about the recycling or disposal systems required by the regulations in force in your territory for this category of product.

WARNING! - certain parts of the product may contain pollutants or dangerous substances which, if dispersed in the environment, could have harmful effects on the environment and human health.
As indicated by the symbol on the side, it is forbidden to throw this product into household waste. Then perform the "separate collection" for disposal, according to the methods provided by the regulations in force in your territory, or return the product to the seller when buying a new equivalent product.
WARNING! - the regulations in force at local level may provide for heavy penalties in case of improper disposal of this product.

10. WARRANTY

The manufacturer's warranty is valid from the date stamped on the product and is limited to the repair or replacement free of charge of the parts recognized by the same as defective due to lack of essential quality in the materials or lack of processing. The warranty does not cover damage or defects due to external agents, maintenance deficiency, overload, natural wear, choice of incorrect type, assembly error, or other causes not attributable to the manufacturer. Tampered products will not be guaranteed or repaired. The data given are purely indicative. No liability may be charged for reductions in scope or malfunctions due to environmental interference. The liability of the manufacturer for damage caused to anyone by accidents of any nature caused by our defective products, are only those that derive from the Italian law.

NOTES

ALLMATIC S.r.l
32026 Borgo Valbelluna - Belluno – Italy
Via dell'Artigiano, n°1 – Z.A.
Tel. 0437 751175 – 751163 r.a.
www.allmatic.com - E-mail: info@allmatic.com

6-1621987 - rev. 4 - 16/09/2021