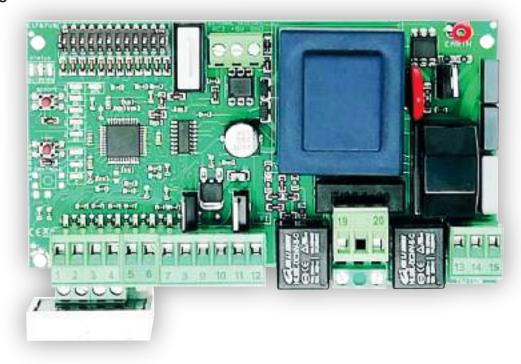
K82

MULTIFUNCTION CONTROL UNIT 230 VAC FOR SLIDING GATES

APE-570/0740



TECHNICAL CHARACTERISTICS

- Power supply: 230Vac

Max managed motor power: 1000W
 Accessory power supply: 24Vdc 200mA

- Flasher output: 24Vac, 5 Watts

- 230Vac independent xed output (flasher)

- Frequency: 433.92Mhz- Storable radio codes: 100- Dimensions: 137x78x33mm

- Operating temperature: -10°C, +70°C

OPTIONAL ACCESORIES

Relay for auxiliary outputs (not included)
OUT1 / OUT2



Power supply 24 VDC

MAIN FUNCTIONS

- Fault signals via LEDs
- Adjustment of motor force in normal running
- Adjustment of pause time (automatic closing)
- Condominial
- Step-by-step
- Photocell test
- Motor testing
- Self-learning of radio codes with start function
- Self-learning of radio codes with stop function
- Radio code self-learning with function of quick closing
- Deletion of single radio code
- Deletion of all radio codes
- Sequential programming
- Multifunction inputs
- 230 VAC independent output (flasher)
- Connection of No.3 8K2 safety edges in opening
- Connection of no.3 8K2 safety edges in closing

Radio module (not included)



Frequency 433.92 MHz Power supply 5V - 10 mA



www.abexo.tech

1. Read the instructions carefully before proceeding with the installation

of the control unit.

- 2. Keep these instructions for any future reference.
- 3. This product is designed and manufactured exclusively for the use

intended and indicated in this documentation. Any other use not expressly indicated could impair the integrity of the product and/or represent a source of danger.

4. For the safety, you must carefully follow the instructions provided in this manual. Incorrect installation or incorrect

use of the product may cause serious personal injury.

5. Materials used for packaging should not be left within the reach of children, as they are potential sources of danger, and should

be properly disposed of.

6. AB Tecno Srl disclaims all liability for any consequences resulting

from improper use or use other than that for which the device was designed and constructed.

- 7. AB Tecno Srl is not responsible for non-compliance with applicable EC standards for motorized locks, as well as any deformation that may arise in use.
- 8. Do not install the equipment in an explosive atmosphere: the presence of gas or inflammable fumes constitutes a serious source of safety hazard.
- Installation must be effected in accordance with EN
 12453 and EN 12445. For non-EEC countries, in order to achieve a sufficient level of safety
- , the above standards must be observed in addition to the individual national regulatory references.
- 10. Before working on the system, disconnect any batteries and disconnect the power supply.
- 11. It is advisable to provide for the presence of an omnipolar switch with

contact opening distance equal to or greater than 3 mm on the mains

power supply of the automation. We recommend the use of a circuit breaker

of 6A with an omnipolar breaker.

12. Check that there is a differential circuit breaker upstream of the system.

with a 0.03A threshold.

- 13. Check that the grounding system is properly made, and connect the metal parts of the enclosure to it.
- 14. Even automations that have an internal safety anticrushing function

requires functional check in all cases

in compliance with the standards indicated in Section 9.

- 15. Safety devices (EN 12978 standard) enable the protection of any hazard areas from mechanical Risks related to movement, such as crushing, conveying, shearing and lifting.
- 16. For each installation, we suggest using at least one signaling light (ex. flashing lights), as well as a warning sign

properly f xed and clearly visible.

- 17. AB Tecno Srl disclaims any responsibility related to the safety and proper operation of the automation.
- 18. The installer must provide the final user with all information regarding

manual operation of the automation in case of emergency.

- 19. During operation, do not allow children or others to stand near the system during operation.
- 20. Keep out of the reach of children any remote control or device to prevent the possible unwanted operation of the automation.
- 21. The transit of people and vehicles is permitted only and exclusively when the automation is fully opened..
- 22. The User of the automation must refrain from any attempt to repair and/or direct intervention and refer exclusively

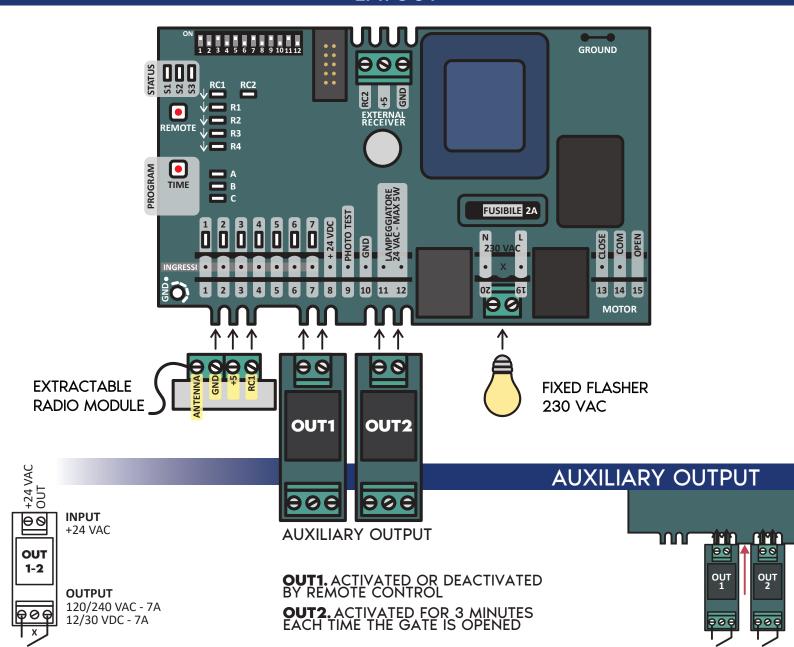
to qualified personnel. Otherwise, AB Tecno Srl declines all responsibility

for any possible consequences.

23. Anything not expressly indicated in these instructions is not allowed.



LAYOUT



LED

S1-S2-S3 GATE STATES / CENTRAL CONTROL UNIT SIGNALS RC1 SIGNAL RECEIVED FROM INTERNAL RADIO RC2 SIGNAL RECEIVED FROM EXTERNAL RADIO R1 START STARTS THE GATE IN OPENING AND CLOSING R2 STOP STOPS THE GATE **R3** PEDESTRIAN STARTS A PEDESTRIAN OPENING **R4** OUT1 ON/OFF **ACTIVATES OR DEACTIVATES OUT1**

A-CLED PROGRAMMING

1-2-3-4-5-6-7 LED INPUT			
			STATUS LED SIGNALS
S 1	S2	S3	
		0	STAND BY, GATE CLOSED
			OPENING OR CLOSING IN PROGRESS, GATE
			PROGRAMMING IN PROGRESS
		0	PHOTOCELL TEST ERROR
I		0	MOTOR TEST ERROR: THERMAL OR CONNECTION
		0	PROGRAMMING ERROR: WRONG PROCEDURE

FUNCTIONS DESCRIPTIONS

SLOW DOWN: BEFORE THE END OF OPENING AND CLOSING, THE GATE SLOWS DOWN FOR THE PROGRAMMED TIME. DURING THE SLOWDOWN THE MOTOR FORCE IS MAXIMUM.

PEDESTRIAN WORK TIME: THE GATE OPENS FOR 8 SECONDS.

SOFT START: THE MOTOR IS STARTED GRADUALLY PRESERVING THE MECHANICAL STRUCTURE OF THE GATE AND THE RACK.

TEST: BEFORE EACH THE PROPER OPERATION OF THE MOTOR AND PHOTOCELLS IS CHECKED. IF ANY OF THE TESTS FAILS THE MANEUVER IS NOT STARTED, THE LEDS INDICATE THE MALFUNCTION FOUND. THE MOTOR TEST FAILS IF THE MOTOR IS IN THERMAL PROTECTION, IN CASE OF CONNECTION ERROR OR NOT WORKING. THE PHOTOCELL TEST FAILS IF THE TRANSMITTER AND RECEIVER ARE NOT PROPERLY ALIGNED, IF THERE ARE INSTALLATION ERRORS OR IF THEY ARE DAMAGED.

DISABLE UNCONNECTED N.C. INPUTS: DISABLES ALL UNCONNECTED N.C. INPUTS. IF THE N.C. INPUT IS LATER CONNECTED THE CONTROL UNIT WILL ENABLE IT AUTOMATICALLY NOT CONSIDERING THE DIP SWITCH POSITION.

MOTOR BRAKE: THE CONTROL UNIT BRAKES THE MOTOR IF THE GATE REACHES THE END POSITION WITHOUT HAVING PERFORMED THE SLOWDOWN, PRESERVING THE INTEGRITY OF THE MOTOR.

WORK MODE

AUTOMATIC CLOSING: LHE GATE CLOSES AUTOMATICALLY AFTER THE PROGRAMMED AUTOMATIC CLOSING TIME. - DURING CLOSING THE START AND PEDESTRIAN CONTROLS REVERSE THE MANEUVER.

- DURING OPENING THE START AND PEDESTRIAN CONTROLS STOP THE MANEUVER.

CONDOMINIUM WITH AUTOMATIC CLOSING: THE GATE CLOSES AUTOMATICALLY AFTER THE AUTOMATIC CLOSING TIME PROGRAMMED. - DURING CLOSING THE START AND PEDESTRIAN CONTROLS REVERSE THE MANEUVER.

- DURING OPENING THE START AND PEDESTRIAN COMMANDS ARE IGNORED.

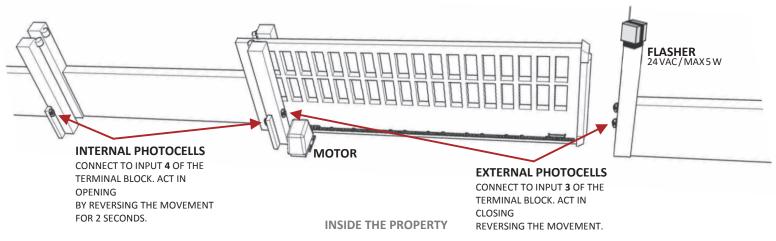
STEP-BY-STEP: THE GATE REMAINS OPEN AFTER THE OPENING IS COMPLETED.

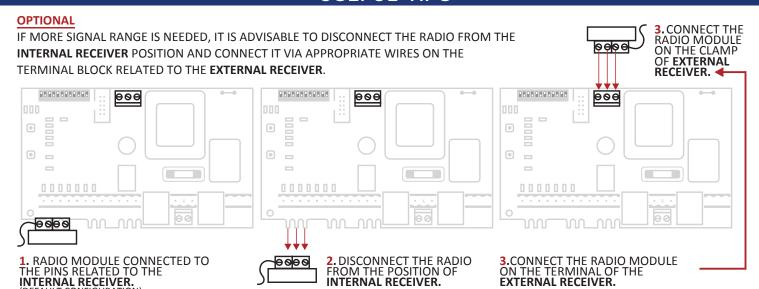
DURING CLOSING AND OPENING THE START AND PEDESTRIAN COMMANDS STOP THE MANEUVER.

STEP-BY-STEP WITH AUTOMATIC CLOSING: THE GATE CLOSES AUTOMATICALLY AFTER THE AUTOMATIC CLOSING TIME PROGRAMMED.

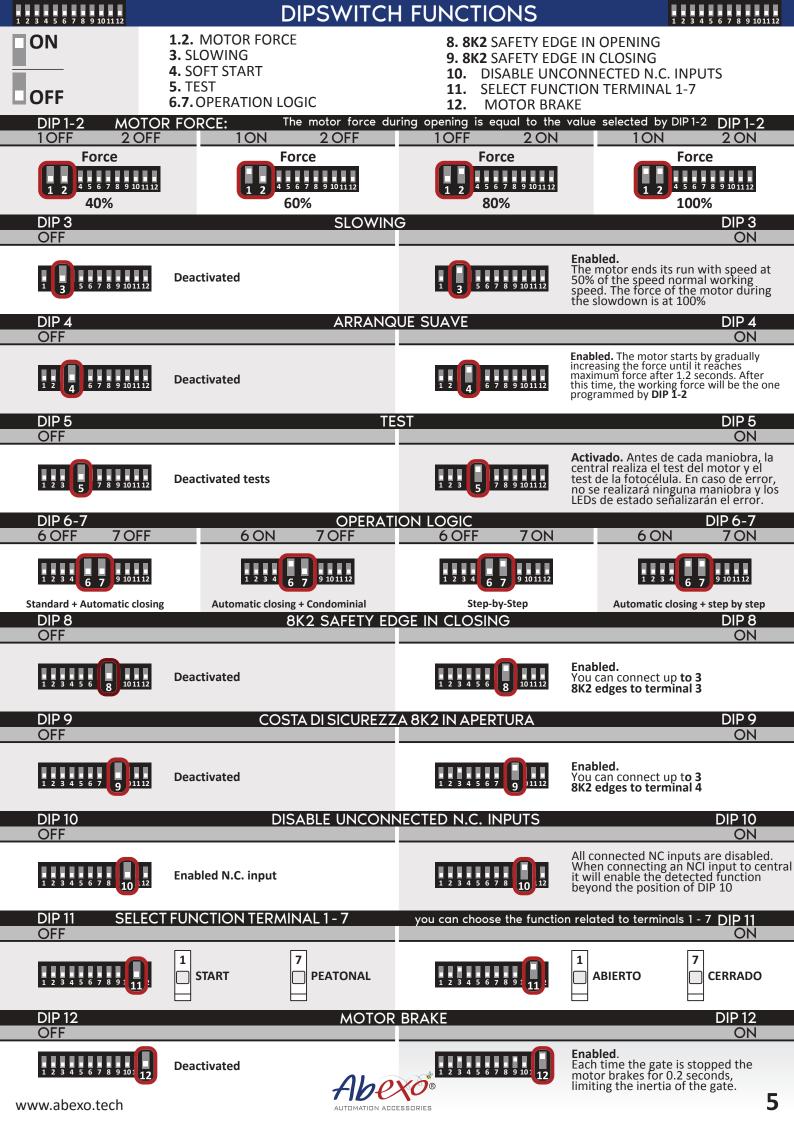
DURING CLOSING AND OPENING THE START AND PEDESTRIAN CONTROLS STOP THE MANEUVER.

STANDARD INSTALLATION





(DEFAULT CONFIGURATION).



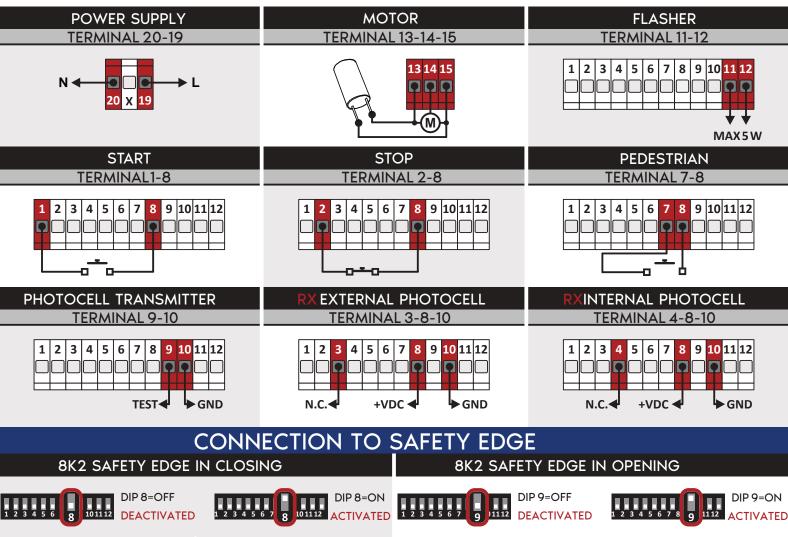
1 2 3 4 5 6 7 8 9 101112

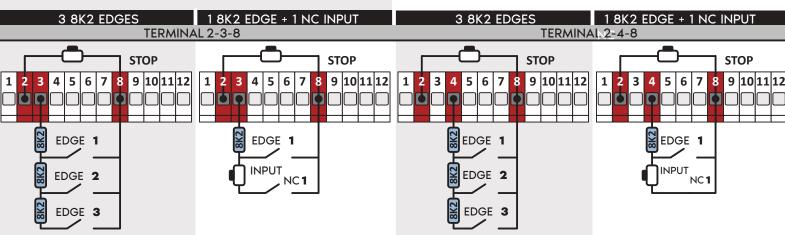
TERMINAL BLOCK CONNECTIONS

1 2 3 4 5 6 7 8 9 10 11 12

- 1. START N.O.
 2. STOP N.C.
 3. EXTERNAL PHOTOCELL N.C. / 8K2 EDGE
 4. INTERNAL PHOTOCELL N.C. / 8K2 EDGE
 5. CLOSING LIMIT SWITCH N.C. / N.O.
- 6. LIMIT SWITCH OPENING N.C. / N.O.
- 7. PEDESTRIAN N.O.
- 8. + VDC / COMMON / +24 VAC
- 9. PHOTOCELL TEST
- **10.** GND

- **11.12.** FLASHER
- 13. LOCKING MOTOR
- 14. COMMON MOTOR
- 15. OPENING MOTOR
- 20.X.19. 230 VAC steady flasher





NB: shown is the connection with 3 8K2 edges, if only one edge is needed do not cosider EDGE 2 and 3. If 2 edges are needed do not consider EDGE 3

- set DIP 8 to OFF
- connect the edges in series (up to a maximum of 3 8K2 edges)
- set DIP 8 to ON
- test the connected ribs by checking LED 3 on the terminal block (OFF not active / ON active)
- LED 3 flashes and LED A-B-C show the number of installed edges:

instalados: EDGE 1 EDGE 2 EDGE 3 **A** A ___ A LED 3 flashes В В В

- after 5 seconds the LEDs turn off automatically. If LEDs A-B-C are off and LED 3 remains on, recheck the connections.
- *If STOP is not used, make a link between terminal 2 and 3.

- set DIP 9 to OFF
- connect the edges in series (up to a maximum of 3 8K2 edges)
- set DIP 9 to ON
- test the connected ribs by checking LED 4 on the terminal block (OFF not active / ON active)
- LED 4 flashes and LED A-B-C show the number of installed edges:

instalados: EDGE 1 EDGE 2 EDGE 3 _ A _ A LED 4 parpadea В В В **C**

- after 5 seconds the LEDs turn off automatically. If LEDs A-B-C are off and LED 3 remains on, recheck the connections.
- *If STOP is not used, make a link between terminal 2 and 8.



MEMORIZE A REMOTE CONTROL

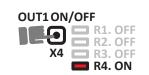
WHILE HOLDING DOWN THE KEY OF THE REMOTE CONTROL TO BE STORED, IF YOU WANT TO ASSOCIATE IT WITH THE FUNCTION START FUNCTION YOU WILL NEED TO PRESS THE **REMOTE** BUTTON **1** TIME,IF OF **STOP** IT WILL BE NECESSARY TO PRESS 2 TIMES THE REMOTE BUTTON, IF OF PEDESTRIAN IT WILL BE NECESSARY TO PRESS 3 TIMES THE **REMOTE BUTTON**, IF OF OUT1 ON/OFF IT WILL BE NECESSARY TO PRESS **4** TIMES THE REMOTE KEY. TO CONFIRM THAT THE SIGNAL HAS BEEN RECEIVED, THE RADIO LEDS OR RC1 OR RC2 WILL LIGHT UP.

MAINTAIN PRESSED THE KEY **C1** OF THE REMOTE ON CONTROL RC2 TO MEMORIZE.









DELETE A STORED REMOTE CONTROL

BY HOLDING DOWN THE KEY OF THE REMOTE CONTROL TO BE ERASED, IF IT IS ASSOCIATED WITH THE FUNCTION OF: START IT WILL BE NECESSARY TO PRESS 4 TIMES THE REMOTE BUTTON, IF OF STOP IT WILL BE NECESSARY TO PRESS 3 TIMES THE REMOTE BUTTON, IF OF PEDESTRIAN IT WILL BE NECESSARY TO PRESS 2 TIMES THE REMOTE BUTTON, IF OF OUT1 ON/OFF IT WILL BE NECESSARY TO PRESS 1 TIMES THE REMOTE BUTTON.

MAINTAIN PRESSED THE KEY **C**1 OF THE REMOTE ON RC2 CONTROL TO ERASE.









DELETE ALL REMOTE CONTROLS

TO ERASE ALL STORED REMOTE CONTROLS HOLD DOWN THE REMOTE KEY FOR ABOUT 6 SECONDS. DURING THIS TIME THE LEDS R1,R2, R3, R4, WILL GO FROM BEING ALL ON TO TURNING OFF IN SEQUENCE. WHEN THE LEDS ARE OFF ALL THE REMOTE CONTROLS WILL BE ERASED.

MAINTAIN PRESSED THE KEY OF THE REMOTE CONTROL FOR CIRCA 6 SECONDS



3

SCHEDULING OF MANEUVER TIMES

Programming must be done with the gate closed

PRESS THE TIME KEY FOR ABOUT 5

S1 S2 S3 000



LED A lights up and the gate opens. **You are** programming the working time of the motor.

1

PRESS TIME BUTTON or a start key

2

S1 S2 S3



BUTTON or a start key S1 S2 S3

1 5

A ____ C

PRESS TIME

PRESS TIME BUTTON or a start key

4

S1 S2 S3 00



LED A flashes. The motor continues opening in slowed down mode. The time for the motor to slow down is being programmed.

LED A is on. The gate is stopped in the open position. Led C flashes by scanning the seconds. You are programming the automatic closing time

The programming is finished. The gate closes.



PRODUCT DISPOSAL



A) Statement for Household EEE without Batteries or Portable Accumulators

INFORMATION TO USERS OF HOUSEHOLD EQUIPMENT OR PROFESSIONAL

Pursuant to Article 26 of Legislative Decree No. 49 of March 14, 2014, "Implementation of the Directive 2012/19/EU on waste electrical and electronic equipment (WEEE)"

The crossed-out bin symbol on the equipment or on its packaging indicates that the product at the end of its useful life should be collected separately from other waste to enable its proper treatment and recycling. The user must, therefore, return free of charge the equipment that has reached the end of its useful life to the appropriate municipal collection centers separate collection of electrical and electronic waste, or return it to the retailer according to the following methods:

- for equipment of very small dimensions, that is, with at least one external side not greater than 25 cm, free delivery with no obligation to purchase is provided at stores with a sales area of electrical and electronic equipment exceeding 400 square meters. For stores with a smaller size, this mode is optional.
- For equipment with dimensions greater than 25 cm, delivery is provided to all points of sale in a 1-for-1 mode, i.e., delivery to the retailer may take place only at the time of purchase of a new equivalent product on a one-for-one basis. Adequate separate collection for the subsequent initiation of the discarded equipment for recycling, treatment and environmentally sound disposal helps to avoid possible adverse environmental and health effects and promotes the reuse and/or recyclingof the materials of which the equipment is composed.

Improper disposal of the product by the user will result in the application of the sanctions under current legal regulations.



ABEXO s a registered trademark property of ABTECNO srl - Via Cicogna 95 40068 San Lazzaro di Savena (BO) info@abtecno.com

www.abexo.tech

CE