

SCOPO DEL MANUALE: questo manuale è stato redatto dal costruttore ed è parte integrante del prodotto. In esso sono contenute tutte le informazioni necessarie per: • la corretta sensibilizzazione degli installatori alle problematiche della sicurezza;

- la corretta installazione del dispositivo;
 la conoscenza approfondita del suo funzionamento e dei suoi limiti;

• il corretto uso in condizioni di sicurezza; la costante osservanza delle indicazioni fornite in questo manuale, garantisce la sicurezza dell'uomo, l'economia di esercizio e una più lunga durata di funzionamento del prodotto. Al fine di evitare manovre errate con il rischio di incidenti, è impor-tante leggere attentamente questo manuale, rispettando scrupolosamente le informazioni fornite. Le istruzioni, i disegni, le fotografie e la documentazione contenuti nel presente manuale sono di proprietà di ON Automation S.r.l. e non possono essere riprodotti in alcun modo, né integralmente, né parzialmente.

SCOPE OF THE MANUAL: this manual was prepared by the manufacturer and forms an integral part of the product. It provides all the necessary information on:

- the safety issues to be drawn to the attention of the installation technicians;
- correct installation of the device; operation and the limitations of the device, in detail;

• correct use in conditions of safety; the instructions in this manual should be observed at all times in order to guarantee personal safety and the cost-effective operation and long life-span of the product. It is important to have read and understood all the information provided in this manual on how to ensure correct use and avoid the risk of accidents. The instructions, drawings, photographs and documentation in

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LIBRETTO ISTRUZIONI - INSTRUCTION MANUAL

Key of the symbols in this manual:

Symbol indication important information

Safety Alert

Caution

Electrical Wiring

Time Schedule of opening & closing the gate



Storage or cancellation of the radio controls for operating the gate

Dedicated user

Maintenance

INTRODUCTION: The following instructions apply only to the electrical installation and use of the control system with the central EC1E.24B . Mechanical Installation instructions see the barrier provided.

During the assembly operation assembly and testing of the automation may occur situations of danger please read the enclosed information carefully. The data shown is just as an indication. The manufacturer is not responsible for any inaccuracies in this manual due to incorrect printing or copying company reserves the right to make modifications to improve the product without prior notice.

WARNING: Carefully read the instructions before beginning the installation the product.

Packaging materials (plastics, polystyrene, etc.) Should not be disposed of properly. Keep out of children's reach. Improper installation of the unit can result in serious dangers, follow all instructions. It is recommended to work in full compliance with safety standards; to operate adequately lit and free of health hazards; wear protective clothing as required by law (safety shoes, goggles, gloves and helmet) avoid wearing articles of clothing that could get caught. Take protective measures appropriate to the risk of injury due to sharp splinters and the possible risks of crushing, impact and shearing. please observe strictly the national rules that apply to the safety at construction sites (in Italian d. lgs. 528/99 coordinated with d. lgs. 494/96 "Implementation of Directive 92/57 / CEE concerning the minimum requirements for safety and health to be taken into temporary or mobile sites "). Reduce the construction site to prevent the transit to unauthorized persons and do not leave area unattended until install is complete, electrical connections and adjustments must be performed in good technical and accordance with current regulations in the country of installation. The motor manufacturer is not responsible for failure to observe Good Technique in the construction of the facility to be motorized or for any deformation occurring during use. Incorrect installation can be dangerous. Perform the operations as specified by the manufacturer. Before starting the installation, check the integrity of the product and ensure that the existing structure has the necessary strength and stability, and meets industry regulations in force. The installation, testing and commissioning of the pedestrian closure, as well as periodic inspections and maintenance work can be performed only by specialized and trained on the product.

Ensure the data on the label correspond to those of the electricity distribution network. The protective measures are taken on the primary site / at work. How to switch the mains voltage using a differential switch of 30th and 6A thermal. Before carrying out any maintenance, repair or replacement of mechanical and electrical it is necessary to interrupt the power supply network. Testing and commissioning of the drive are not allowed until it has been verified that the system complies with the requirements of the Machinery Directive 2006/42 / cee. The installer is required to produce and keep the technical file of the gate and must comply with all the formalities required. At the end of the work the installer must check the installation and proper functioning of the automation. Must perform risk analysis and ensure that the plant does not present points of crushing or shearing. If necessary must take appropriate corrective measures and apply the signs required by law to identify danger areas. Each installation must bear a visible indication of the motorized system and hand over the instructions of the user 'plant. For repairs or replacements will be used only original spare parts. You do not recognize the warranty if used in combination with components of other manufacturers. The motor manufacturer is not liable for any components which are incompatible with the safe and efficient operation.



CONTENTS:

- 1- Operating limits
- 2- Overview
- 3- Technical
- 4- Description Central
- 5- Wiring diagram of the system type
- 6- Description cables for wiring
- 7- Electrical wiring of the outputs:7.1- Power Line, flashing, the electric motor
- 7.2- light output diagnostic gate status and photo test
- 8- Electrical Wiring inputs
- 8.1- Buttons sequential 8.2- Command Button single opening
- 8.3- photocell in closing
- 8.4- photocell during opening and closing 8.5- Safety edge
- 8.6- Connection for photo test
- 8.7- Emergency stop (STOP)
- 8.8- Antenna Connection
- 9- Diagram of all electrical connections
- 10- Description of the buttons on the board
- 11- Description of the LEDs on the board 12. Description of main menu
- 13- Programming race
- 14- Learning and cancellation of the radio controls
- 15- Programmable Parameters
- 16- Parameter reset to default
- 17- Meters maneuvers
- 18- Error History
- 19. Enter password
- 20- Flow chart summarizing 21- Checks and inspections
- 22- Maintenance
- 23- Troubleshooting
- 24- User
- 25- Compliance Statement
- -Memory Data extractable
- -Storico errors
- -password Access



2

1

GENERAL DESCRIPTION

meet those requirements.

The control unit can control motors with a power not exceeding 80 W and is also equipped with:

- -Led Diagnostic inputs
- -Receiver Integrated with up to 64 remote controls with rolling code -Adjustment Torque -Adjustment Slowdown speed

- -Detection Obstacle with sensitivity adjustment
- -Input dedicated to sensitive edges
- -Input dedicated to magnetic induction coils or timer
- -Input The command for the closing
- -Exit for trafic light



TECHNICAL DATA: Ĩ

Ensure temperature is appropriate for installation.

DISCRIPTION Value	VALUE
Powering up the system	26VDC +6% -10 %
Motor Power supply	22-32VDC +6% -10 % Maximum power 80W
Flashing power	24VDC for a maximum of 10W
Power supply for external devices	24VDC +10% -15% for a maximum of 500 mA
Maximum power consumption	140W
Central protection & accessories	Fuse F 8A (F2)
Battery protection	Fuse 8A (F1)
Range operating temperature	- 20 ÷ +70 °C i
Degree of protection	IP 56



LEGEND:

- 1- Terminal block for connection of the power supply
- 2- Connector for battery
- 3- Terminal block for connection electic motor
- 4- Terminal block for connection of the flashing light,
- Courtesy, safety input and the command button 5- Led diagnostic inputs (red)
- 6- Button LEARN
- 7- Button for memorize the work barrier
- 8- Button for memorize the automatic reclosening time
- 9- Led diagnostic programmation
- 10- Dip switch
- 11- Trimmer

- 12- Terminals for connecting antenna
- 13- Riceiver
- 14- Motor protection fuse
- 15- Battery protection fuse

i WIRING DIAGRAM



<i>i</i> DESCH	RIPTION CABLES FOR WIRING	6
NUMBER	DISCRIPTION	CABLE TYPE
1	Central command	-
2-3	Photocell	TX: 2x1mmq - RX : 4 x 0,5mmq
4	Key switch	2 x 1mmq
4	Flashing light with integrated antenna	2 x 1mmq + RG58 (Recommended length 5 meters)
6	Wells for piping	-
7	Internal push	4x1 mmq
8	Power line	3 x 1,5 mmq

You cannot run in the wells joints and cables of entry into the container of the control unit must be inserted using special wire clamps to maintain the IP rating of the enclosure.

7

7.1- POWER LINE, FLASHING LIGHT AND ELECTRIC MOTOR

			NUMBER CLAMP	DISCRIPTION	VALUE
0 22 0 25 0 25 0	M M 1 M A 1	L.C COM FLASH	19-20	Input line power	22VAC +6% -10 % /50 Hz
22 32 VAC VAC			21	Speed motor	22-32VAC +6% -10 % /50 Hz
230VAC			22-23	Output power of electric motor	24VDC max. 80W
		\otimes	2-3	Flashing light output or trafic light : posi- tive terminal 2 , negative terminal 3	24VDC max.10W
			18-19	Status barier light or trafic light : positive terminal 2, negative terminal 1	24VDC max.10W

LIBRETTO ISTRUZIONI - INSTRUCTION MANUAL





8.4- EDGE SAFETY



8.5- EMERGENCY STOP (STOP) contact normally closed : input stop action causes the immediate interruption of the barrier and the suspension of time for the automatic closing, with a subsequent command to start the barrier performs a closing.



8.6- ANTENNA CONNECTION: The connection must be made via the RG58 coaxial cable for a length of no more than 5 meters



SIGNS	NUMBER	DESCRIPTION
CLOSE	4	Input for the closing only , normally open contact
OPEN	5	Input for the opening only, normally open contact
STOP	7	Input for the connection of the stop button , normally closed contact
SEQ	8	Input for sequential control , normally open contact
PH1	9	Input for the connection of the active photocells during closing, normally closed contact
SAF	11	Input for connection of sensitive edges active in both opening and closing , normally closed contact

7



i summary diagram of the electrical connections



10- DESC	CRIPTION OF BUTTONS ON BOARD CARD
SIGNS	DISCRIPTION
LEARN	Button for entry programming and memorize the radio controls
WORK	Button for fix the point slowing down
BREAK	Button for programming automatic reclosing

11- DESCRIPTION OF LED ON BOARD CARD			
SIGNS	DISCRIPTION	COLOR	
CLOSE	Shows the status of OPEN (terminal number 4) off with input not committed , normally open con- tact	Red	
OPEN	Shows the status of OPEN (terminal 5) off with input not prevent nated, normally open contact.	Red	
STOP	Shows the status of STOP (terminal number 7) lit entrance not committed , normally closed contact .	Red	
START	Shows the status of SEQUENTIAL (terminal number 8) off with no input involved, normally open contact.	Red	
PH1	Shows the status of EXTERNAL PHOTOCELL PH1 active only in closing (terminal number 9) with switched input not committed, normally closed contact	Red	
EDGE	Shows the status of SAF active in opening and closing (terminal number 11) with switched input is not engaged, normally closed contact.	Red	
FCC	Shows the status of limit switches (terminal number 12).	Red	
FCO	Shows the status of limit switches (terminal number 13).	Red	
PROG	Shows the status of programming	Red	

AUTOMATIC PROGRAMMING RACE: This procedure programming with 30% space slowing down . The commitment of one of the safety devices (photocells or sensiti-ve edges) during the procedure causes stop and exit the program.

A- Press and hold button BREAK for 8 seconds ,until led PROG flashing and the barrier opening	LEARN No Sec.
B-With the stop closing the barrier the leave at opening after 2 seconds.	
C- With the stop opening the barrier the leave at closing after 2 seconds.	
D- The barrier begin to slow and the race continues.	
E- The barrier is closing position, the led PROG stop flashing to indicate the end .	



PROGRAMMING RACE: This procedure allows personnel lizing the deceleration in opening and closing . The commitment of one of the safe-ty devices (photocells or sensitive edges) during the procedure causes stop and exit the program

A-Press and realese the button LEARN.	
B-Press and realese the button WORK, the barrier start in closing .	WORK
C-The barrier opens	
C- Press the WORK , to set starting point of slowing, the barrier begin to slow and the race continues.	DPROG WORK
D- With the stop opening the barrier stops and the leave at closing after 2 seconds.	PROG
E- Press the WORK , to set starting point of slowing, the barrier begin to slow and the race continues.	WORK
F- The barrier is closing position, the led PROG stop flashing to indicate the end .	



PROGRAMMING THE REMOTE CONTROLS:

The control panel can be programmed with a max of 64 remote controls fix or rolling code.

14.1- PROGRAMMING THE REMOTE CONTROL ASSOCIATED WITH THE START INPUT

A- press button LEARN the PROG starts flashing	
B- press the button on the remote control to be programmed with the START command within 10 sec.	
D- LED PROG stop flashing	PROG
	PROG
14.2- DELETE ALL THE REMOTE CONTROL:	

15

press and hold button LEARN for 10 seconds (the LED PROG flashing). After 10 seconds the led PROG is OFF.

PROGRAMMING THE AUTOMATIC CLOSING TIME CAUTION to enter programming it is necessary that the barrier is in the closed position.

A- <u>Completely close the barrier</u> . Press and rele- ase button LEARN, the led PROG flashing		
B- Press and release button BREAK, the flashing light is ON, counting start the time automatic reclosing	Inizio conteggio Counting starts	BREAK IO FLASHING IIGHT O O O O O O O O
C- For stop counting press again BREAK button	Fine conteggio Counting stop	$ = \operatorname{STOP}_{\operatorname{TIMER}} = \operatorname{STOP}_{\operatorname{6}} $

DISABLE THE AUTOMATIC RECLOSING FUNCTION:

CAUTION to enter programming it is necessary that the gate is in the closed position.

A- <u>Completely close the gate</u> . Press and release button LEARN, the led PROG flashing	Inizio programmazione Start programming	LEARN
B- Press and hold button BREAK for 8 seconds ,until led PROG goes off.		$ \begin{array}{c} \text{BREAK} \\ \textcircled{O} \\ \swarrow \\ \text{PROG} \end{array} \begin{array}{c} \text{PROG} \end{array} \begin{array}{c} \text{REMOVE} \\ \text{AUTOMATIC} \\ \text{RECLOSING} \\ \text{FUNCTION} \end{array} \\ x \text{ 8 sec.} \end{array} $

DESCRIPTION OF THE TRIMMER Code Description SPEED Adjust the speed of the motor before slowing down: turn the trimmer clockwise to increase the force SLOW Adjust the speed of the motor before slowing down: turn the trimmer clockwise to increase the speed AMP Adjust the deceleration speed; turn the trimmer clockwise to increase the speed AMP Adjust the force that the motor places on the obstacle during the stroke before intervening with the reverse direction. To increase, turn the trimmer clockwise DESCRIPTION OF THE DIP SWITCHES Image: Code Code Status Description DW2-1 OFF Community feature OFF (SEQ button working if the gate is opening) DW2-1 OFF Closing after disengaging of photocell input not enabled DW2-2 OFF Closing after 3 second disengaging of photocell input enabled DW2-2 ON Closing after 3 second disengaging of photocell input enabled DW2-3 OFF Not used DW2-4 OFF Without encoder DW2-4 ON With encoder DW2-4 OFF Terminal output 1-2-3 use for trafic light DW1-1 ONF Terminal output 1-			(16)
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DW1-2 ON lock function for enabled mobile support	DW1-2	OFF	Lock function for non-enabled mobile support
	DW1-2	ON	lock function for enabled mobile support

Suser Manual:

-Aprire la copertura

-inserire la chiave e girare per 180° in senso antiorario

-inserire la chiave esagonale e girare la chiave in senso antiorario, accompagnare il movimento l'asta con una mano.

- Open the plastic cap.

-Insert the key and turn it clockwise for 180° and revove the block key

- Insert the key and turn it clockwise for 180° always **holding the boom by the hand** till the total opening in order to prevent quick movement toward up that can cause serious damages or accidents.



N.B.: a asta in posizione di chiusura, azzionare lo sblocco prestando attenzione al movimento dell'asta, girando la chiave di 180°, l'asta si porterà automaticamente in posizione di apertura, è necessario accompagnare il movimento dell'asta con una mano.

<u>Con asta in posizione di completa apertura, riarmare lo sblocco per evitare caduta o movimenti pericolosi delll'asta.</u>

WARNING: if you have to do a manual releasing in case of emergency with the boom in horizontal position (closed), be very careful as once you turn the key 180° clockwise for unlocking the system, the boom moves towards up quickly and can cause damages or accidents. It is absolutely necessary to <u>hold the boom with an hand</u> and gently take it to the maximum opening position. To put the barrier again on automatic working, turn the key 180° anti-clockwise with the boom up right and move it a little bit until you hear a click. Give a start with the remote or with the button to check if it works properly.



TREGISTRO MANUTENZIONE - MAINTENANCE REGISTER:

DATA DATE	MANUTENZIONE ORDINARIA ORDINARY MAINTENANCE	MANUTENZIONE STRAORDINARIA EXTRAORDINARY MAINTENANCE	DESCRIZIONE INTERVENTO WORK DESCRIPTION	PARTI SOSTITUITE PARTS REPLACED	FIRMA SIGNATURE

(19)-

DICHIARAZIONE CE CONFORMITÀ

EC1EB.24 - Centrale di controllo per barriere 24VDC è conforme alle seguenti disposizioni pertinenti: 89/336/CEE, 93/68/CEE

CE DECLARATION OF CONFORMITY

EC1EB.24 - The 24VDC control equipment for the barrier conforms to the following standards: 89/336/EEC, 93/68/EEC



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MADE IN ITALY