

- I** CENTRALE ELETTRONICA PER IL COMANDO
1 MOTORE SERIE AO - AO/R

- GB** ELECTRONIC CONTROL UNIT FOR 1 MOTOR
AO - AO/R SERIES

- F** CENTRALE ÉLECTRONIQUE POUR LA COMMANDE
D'1 MOTEUR SÉRIE AO - AO/R

- D** ELEKTRONISCHE ZENTRALE FÜR DIE STEUERUNG
EINES MOTORS DER SERIE AO - AO/R

- E** CENTRAL ELECTRÓNICA PARA EL
ACCIONAMIENTO 1 MOTOR SERIE AO - AO/R

QUESTO LIBRETTO È DESTINATO SOLO ALL'INSTALLATORE.

L'installazione dovrà essere effettuata solamente da personale professionalmente qualificato in conformità a quanto previsto dalla legge n° 46 del 5 marzo 1990 e successive modifiche ed integrazioni e nel pieno rispetto delle norme UNI 8612.



This manual is for use only by technical personnel qualified to carry out the installation.

No information given in this manual can be considered of any interest to the end user!

It is our duty to remind you that you are carrying out operations on machine systems classified in the “Automatic gates and doors” category and as such are considered particularly “hazardous”.

It is your job to make them as “Safe” as is reasonably possible!



Only qualified personnel should install and service the equipment. It is the responsibility of the installer to ensure that the equipment is correctly and professionally installed in compliance with all relevant regulations and standards applicable in the country of installation.

We draw your attention to the following most important European directives - it is the installers responsibility to check what other regulations apply in the country of installation

- EEC 89/392 (Machine Directives EN 294; EN 349; EN 1051)
- EEC 73/23 (Directive on Low Voltage)
- EN 60335-1 (Safety in using electrical equipment for domestic use etc., general standards).
- EN 60204-1 Safety of machinery and machines' electrical equipment, general rules.
- EN 50081-1 EMC. General emission standards.
- EN 50082-1 EMC. General immunity standards.
- UNI 8612 Italian standards regarding motorised gates and doors - Construction criteria and accident prevention devices.

Nice products are designed and manufactured to meet all the required standards (as regards the equipment) but it is essential that the installer also installs (the systems) in strict accordance with all local and European requirements

Unqualified personnel or those who do not know the standards applicable to the “Automatic gates and doors” category:

Must under no circumstances carry out installations or implement systems.

Personnel who install or service the equipment without observing all the applicable standards:

Will be held responsible for any damage the system may cause!

DESCRIPTION OF THE TERMINAL BOARD

1...3	: 230 Vac	= 230 Vac output 50 Hz
4 - 5	: Flashing light	= Output for connecting the flashing light or courtesy light 230 Vac, max power 100W
6...8	: Motor	= Output for connecting the 230 Vac motor, max power 1/2 Hp (400 Watt)
9-10	: 24 Vac	= 24 Vac output for auxiliary functions: Photocell, Radio etc. Max. 100mA.
11	: Common	= Common for all inputs.
12	: Photocell	= Input for safety devices (Photocells, pneumatic edges)
13	: Step-by-step	= Step-by-step operating input (OPEN STOP CLOSE STOP)
14	: FCC (CLS)	= Close limit switch input
15	: FCA (OLS)	= Open limit switch input.
41-42	: 2nd Radio Ch	= Output for a second radio receiver channel.
43-44	: Aerial	= Input for the radio receiver aerial



Link-out any unused NC contacts!!!.

INSTALLATION INSTRUCTIONS

- A) Once the connections have been made as described previously and after installing all the safety and signalling devices established by standards, power the unit and check that voltage on terminals 9 and 10 is between 22 and 26 Vac.
- B) Check that all the safety devices are working properly.
- C) Plug the AR card into the connector on the **A0/R** version in place of the clamp (*) if you wish to adjust motor torque.
- D) Press the **step-by-step** button and check correct opening movement. If direction is wrong, reverse the OPEN/CLOSE phase wires on the motor. Verify correct operation of the limit switches and if necessary change the open limit switch (FCA) with the close limit switch (FCC).
- E) Adjust working time.
- F) Plug the radio receiver into the connector, checking it is working properly.

(*) In this case it will be necessary to install a filter, of at least 6A, in proximity of the unit with an attenuation higher than 30dB between terminals 1-2-3 so as not to exceed the electromagnetic emission limits specified by the EN 50081-1 standard.

STANDARD OPERATION

With all the dip switches turned **OFF** (see Fig. 1), the **A0-A0/R** will carry out an opening manoeuvre with the first **step-by-step** or radio control pulse. This opening manoeuvre can be stopped with the open limit switch (FCA), from the end of the work time, by another **step-by-step** or radio control pulse.

The safety devices (photocell) are not contemplated in the opening manoeuvre.

The flashing light flashes throughout the entire opening manoeuvre, stopping at the end of it. The gate or door will close when another **step-by-step** or radio control command is given; this manoeuvre can be interrupted by the safety devices (Photocell), when the close limit switch (FCC) trips or when another step-by-step or radio control pulse is given or at the end of the work time.

The flashing light flashes throughout the entire manoeuvre, stopping at the end of it.

The sequence of the **step-by-step** button or radio control is:

- OPEN - STOP - CLOSE - STOP.

PROGRAMMABLE FUNCTIONS

The different functioning modes can be selected and switched on with the FUNCTIONS dip switch:

Switch 1 ON : Courtesy light function.

Switch 2 ON : Partial remote reversal

Switch 3 ON : Complete remote reversal

Switch 4 ON : Limit switch excluded

DESCRIPTION OF THE PROGRAMMABLE FUNCTIONS

Switch 1 ON: Courtesy light function.

When this function is enabled the unit's 4-5 output will remain active for the entire duration of the movement plus an additional 45 seconds so a light can be connected to illuminate the area.

Switch 2 ON: Partial remote reversal

If the safety device triggers when the gate or door is closing, movement will be reversed partially for about 2 seconds.

Switch 3 ON: Complete remote reversal

If the safety device triggers when the gate or door is closing, movement will be reversed completely.

Switch 4 ON: Limit switch excluded

If this function is not going to be used, activate this function instead of linking out the FCA and FCC contacts.

INFORMATION ON MEASURES TO SAFEGUARD THE ENVIRONMENT

This product is made with different materials that can be recycled.

Inquire about the recycling or disposal systems for the product, in accordance with local laws.

TECHNICAL DATA

- POWER SUPPLY	: 230 Vac +/- 10% 50-60 Hz
- WORKING TEMPERATURE	: -20 °C +60 °C
- MAX. MOTOR POWER	: 1/2 Hp SINGLE-PHASE
- MAX. OUTPUT CURRENT 24Vac	: 100mA
- WORK TIME	: Adjustable from 2 to 120 secs.
- COURTESY LIGHT TIME	: Fixed at about 45 secs.
- CONTAINER SIZE	: 147 x 118 x 52 mm