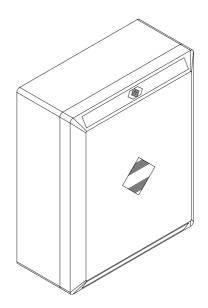
L8542839 Rev. 06/04/01



CENTRALE DI COMANDO
CONTROL UNIT
STEUEREINHEIT
CENTRALE DE COMMANDE
CENTRAL DE MANDO
CENTRALKA STEROWANIA

SA.03 "Head"



Libro istruzioni
Operating instructions
Betriebsanleitung
Livret d'instructions
Manuale de instrucciones
Książeczka z instrukcjami



UNIONE NAZIONALE COSTRUTTORI AUTOMATISMI PER CANCELLI, PORTE, SERRANDE ED AFFINI Dichiarazione CE di conformità EC declaration of confirmity EG-Konformitatserklarung

Déclaration CE de conformité Declaracion CE de conformidad Deklaracja UE o zgodności

Con la presente dichiariamo che il nostro prodotto We hereby declare that our product Hiermit erklaren wir, dass unser Produkt Nous déclarons par la présente que notre produit Por la presente declaramos que nuestro producto Niniejszym oświadczamy że nasz produkt

SA.03 Head

è conforme alle seguenti disposizioni pertinenti: complies with the following relevant provisions: folgenden einschlagigen Bestimmungen entspricht: correspond aux dispositions pertinentes suivantes: satisface las disposiciones pertinentes siguientes: zgodny jest z poniżej wyszczególnionymi rozporządzeniami:

Direttiva sulla compatibilità elettromagnetica (89/336/ CCE, 93/68/CEE)

EMC guidelines (89/336/EEC, 93/68/EEC) EMV-Richtlinie (89/336/EWG, 93/68/EWG)

Directive EMV (89/336/CCE, 93/68/CEE) (Compatibilité électromagnétique)

Reglamento de compatibilidad electromagnética (89/336/ MCE, 93/68/MCE)

Wytyczna odnośnie zdolności współdziałania elektromagnetycznego (89/336/EWG, 93/68/EWG)

Norme armonizzate applicate in particolare: Applied harmonized standards, in particular: Angewendete harmonisierte Normen, insbesondere: Normes harmonisée utilisées, notamment: Normas armonizadas utilzadas particularmente: Normy standard najczęściej stosowane:

EN 55022, EN 61000-3-2, EN 61000-3-3, EN 50082-1

Senina They!

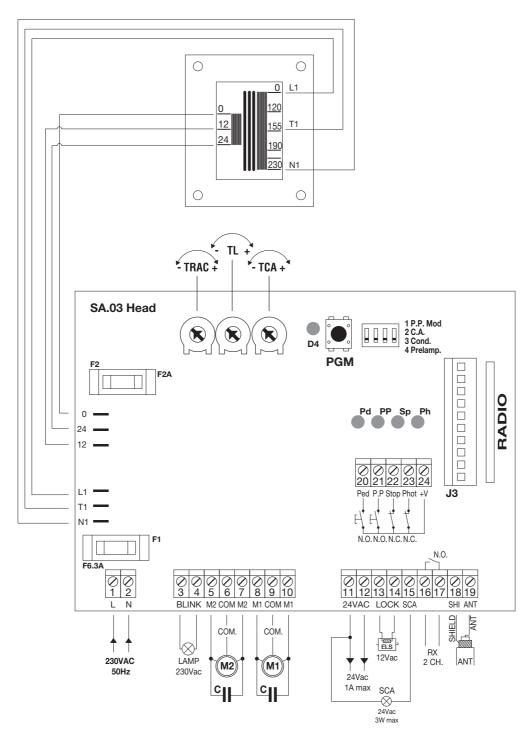
Direttiva sulla bassa tensione (73/23/CEE, 93/68/CEE) Low voltage guidelines (73/23/EEC, 93/68/EEC) Tiefe Spannung Richtlinie (73/23/EWG, 93/68/EWG) Directive bas voltage (73/23/CEE, 93/68/CEE) Reglamento de bajo Voltaje (73/23/MCE, 93/68/MCE) Wytyczna odnośnie niskiego napięcia (73/23/EWG, 93/ 68/EWG)

Norme armonizzate applicate in particolare: Applied harmonized standards, in particular: Angewendete harmonisierte Normen, insbesondere: Normes harmonisée utilisées, notamment: Normas armonizadas utilzadas particularmente: Normy standard najczęściej stosowane:

EN 60204-1, EN 60335-1

BENINCA®

Automatismi Benincà Srl Via Capitello, 45 36066 Sandrigo (VI) ITALIA



SA.03 Head Control Unit

The electronic control unit SA.03 Head can be used to control 2 motors with a power not exceeding

GENERAL WARNINGS

- a) The wire connections and the operating logic should be in compliance with regulations in force.
- The cables featuring different voltage should be physically detached, or adequately insulated by an additional insulation of at least 1 mm.
- The cables should be further fastened in proximity to the terminals.
- d) Check all connections before powering the unit.
- Check that settings of the Dip-switches are the required ones.
- The N.C. inputs which are not in use should be short-circuited.

INPUT/OUTPUT FUNCTIONS

| Terminal No. | Function | Description |
|--------------|----------------|--|
| 1-2 | Power supply | Input, 230Vac 50Hz (1-Phase/2-Neutral) |
| 3-4 | Flashing light | Output, flashing light connection, 230Vac 40W max. |
| 5-6-7 | Motor 2 | Connection to motor 2: (5-move/6-Com/7-move) |
| 8-9-10 | Motor 1 | Connection to motor 1 : (8-move/9-Com/10-move) – delayed in closing phase. If only one motor is used, connect Motor 1 output and adjust TRAC to the minimum value. |
| 11-12 | 24 Vac | Output, accessories power supply 24Vac/1A max. |
| 13-14 | Electric lock | Electric lock connection, 12Vac/0,5A max. |
| 11-15 | SCA | Open gate indicator light connection, 24 Vac/3W max. |
| 16-17 | RX 2ch. | Output, second radio channel. N.O. contact, voltage free. It is enabled with both fixed receiver and expandable two-channel receiver |
| 18-19 | Aerial | Aerial connection, radio receiver card and incorporated radio module (18-screen/19-signal). |
| 20 | Pedestrian | Input, N.O. pedestrian push-button Activation is carried out on motor M1 (8-9-10) |
| 21 | Step-by-Step | Input, N.O. step-by-step push-button |
| 22 | STOP | Input, N.C. STOP push-button |
| 23 | PHOT | Input, safety devices connection, N.C. terminal (e.g. photocells) |
| 24 | +V | Common to all control inputs. |
| 25-26-27 | 0-24-12 | Connection to transformer secondary winding |
| 28-29-30 | L1-T1-N1 | Connection to transformer primary winding |
| J3 | Radio receiver | Connector for two-channel radio receiver (optional) |

To check connections:

- 1) Cut-off power supply.
- 2) Manually release the wings, move them to approx. half-stroke and lock them again.
- 3) Reset power supply.
- 4) Send a step-by-step control signal by pressing the button or the remote control key.
 5) The wings should start an opening movement. If this is not the case, invert the movement wires of the motor. (8/10 for motor M1, and 5/7 for motor M2).
- 6) Adjust Time, Operating Logic and Motor Power.

To adjust the motor power

WARNING! This adjustment affects the safety of the automatic system. Check that the thrust applied onto the wing complies with regulations in force.

A Faston (T1) connector is provided on the power supply transformer which allows the power adjustment of the motors on 4 different levels. By moving the Faston (T1) to 120, power is at minimum, by moving it to 230, power is at maximum.

Position 230 can be used only with motors complete with adjustable mechanical clutch. In any case, check compliance with regulations in force.

Functions of Trimmers

TCA The automatic closure time can be adjusted with this trimmer. Check Dip-switch N°2= On.

This function can be adjusted between 1 s minimum and 125 s maximum. The maximum time of the opening and closing phases can be adjusted with this trimmer. TL

Time should be preset approx. 4 sec. longer than the actual stroke time of the automatic system.

Adjustment ranges from 5 s minimum to 130 s maximum

Note: In the event of partial opening/closing, the control unit calculates the remaining time to

complete the operation in order to avert useless overheating of the motor.

It allows to adjust the delay time with which motor 1 starts closing with respect to motor 2. Adjustment range from 3 s minimum to 30 s maximum. During opening, the out of phase time of the TRAC

motors is 2 seconds.

Dip-Switch functions

DIP 1 "P.P. Mod" The operating mode of "Pulsante P.P." (Step-by-step push button) and of the transmitter

Off: operation : APRE > STOP > CHIUDE > STOP >

On: operation: APRE > CHIUDE > APRE >

Automatic closure is enabled or disabled. DIP 2 "C.A."

Off: disabled automatic closure On: enabled automatic closure

DIP 3 "Cond." The multi-flat function is enabled or disabled.

Off: disabled multi-flat function.

On: enabled multi-flat function. The P.P. (Step-by-step) impulse or the impulse of the

transmitter have no effect in the opening phase.

Forewarning flashing light enabled or disabled DIP 4 "Prelam."

Off: disabled forewarning flashing light

On: enabled forewarning flashing light. The flashing light is activated 3 s before the motor

Note: After modifying the setting of trimmers and Dip-Switches, switch off and power the unit again.

Configuration of the built-in receiver

The control unit is complete with an incorporated radio receiver for both fixed-code and variable code radio controls, at 433.92MHz frequency.

To use a radio control, its code should be copied first. The memorization procedure is shown here under. The device is able to store up to 14 different codes in memory.

Memorization of a new transmitter with activation of the P.P. (step-by-step) function

- Press PGM button once for 2 seconds, the D4 LED starts flashing rapidly.
- Within 10s, press the transmitter push-button which should be stored in memory with P.P. function.

Memorization of a new transmitter with activation of 2nd radio channel output (Terminals 16-17)

- Press button PGM twice, each time for at least 2 seconds, the D4 LED switches on with fixed light.
- Within 10s, press the transmitter push-button which should be stored in memory with 2nd radio channel

To exit the programming mode, wait for 10s or press the PGM button for 2 seconds, the D4 LED flashes regularly again.

To delete the control unit codes from memory

- Cut-off power supply to the control unit
- Reset power supply by keeping the PGM button pressed for 5 seconds; the D4 LED switches on with fixed light and then off when deletion is completed.
- Release the PGM button, memory is deleted and the D4 LED starts flashing regularly again.

NOTE: If the D4 LED switches on with two long flashes and then switches off, when entering the transmitter codes memorization mode, this means that the receiver is full and no other transmitter code can be stored in memory.

LED diagnostics

The control unit is complete with a series of self-diagnostics LED's which allow checking of all functions:

LED PD It switches on when the pedestrian push-button is activated

It switches on when the step-by-stop push-button is activated It switches off when the STOP push-button is activated LED PP

LED SP

LED PH It switches off when photocells are not aligned or when obstacles are present

LED D4 Programming of radio-controls. It is usually flashing to indicate the regular operation of the control unit.

