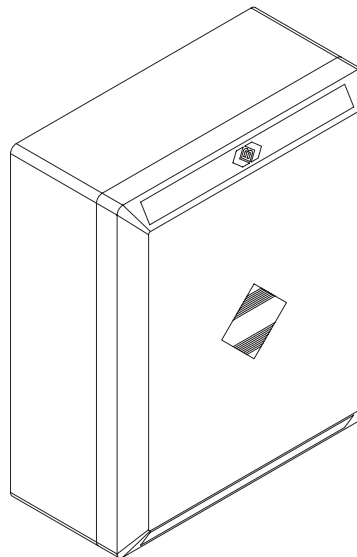


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Rev. 07/02/02

BENINCA®

CENTRALINA A MICROPROCESSORE
CONTROL UNIT WITH MICROCONTROLLER
MIKROCONTROLLER-STEUERUNG
CENTRALE A MICROCONTRÔLEUR
CENTRALITA A MICROPROCESADOR

DA.96AE



Libro istruzioni
Operating instructions
Betriebsanleitung
Livret d'instructions
Libro de instrucciones

UNIONE NAZIONALE COSTRUTTORI
AUTOMATISMI PER CANCELLI, PORTE,
SERRANDE ED AFFINI

Dichiarazione CE di conformità
EC declaration of conformity
EG-Konformitätserklärung

Déclaration CE de conformité
Declaracion CE de conformidad

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

DA.96AE

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:

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)

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)

Norme armonizzate applicate in particolare:
Applied harmonized standards, in particular:
Angewendete harmonisierte Normen, insbesondere:
Normes harmonisées utilisées, notamment:
Normas armonizadas utilizadas particularmente:

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

Norme armonizzate applicate in particolare:
Applied harmonized standards, in particular:
Angewendete harmonisierte Normen, insbesondere:
Normes harmonisées utilisées, notamment:
Normas armonizadas utilizadas particularmente:

EN 60204-1, EN 60335-1

Norme e specifiche tecniche nazionali applicate in
particolare:
Applied national technical standards and specifications, in
particular:
Angewendete nationale Normen und technische
Spezifikationen, insbesondere:
Normes et spécifications techniques nationales qui ont été
utilisées, notamment:
Normas y especificaciones técnicas nacionales que se
utilizaron particularmente:

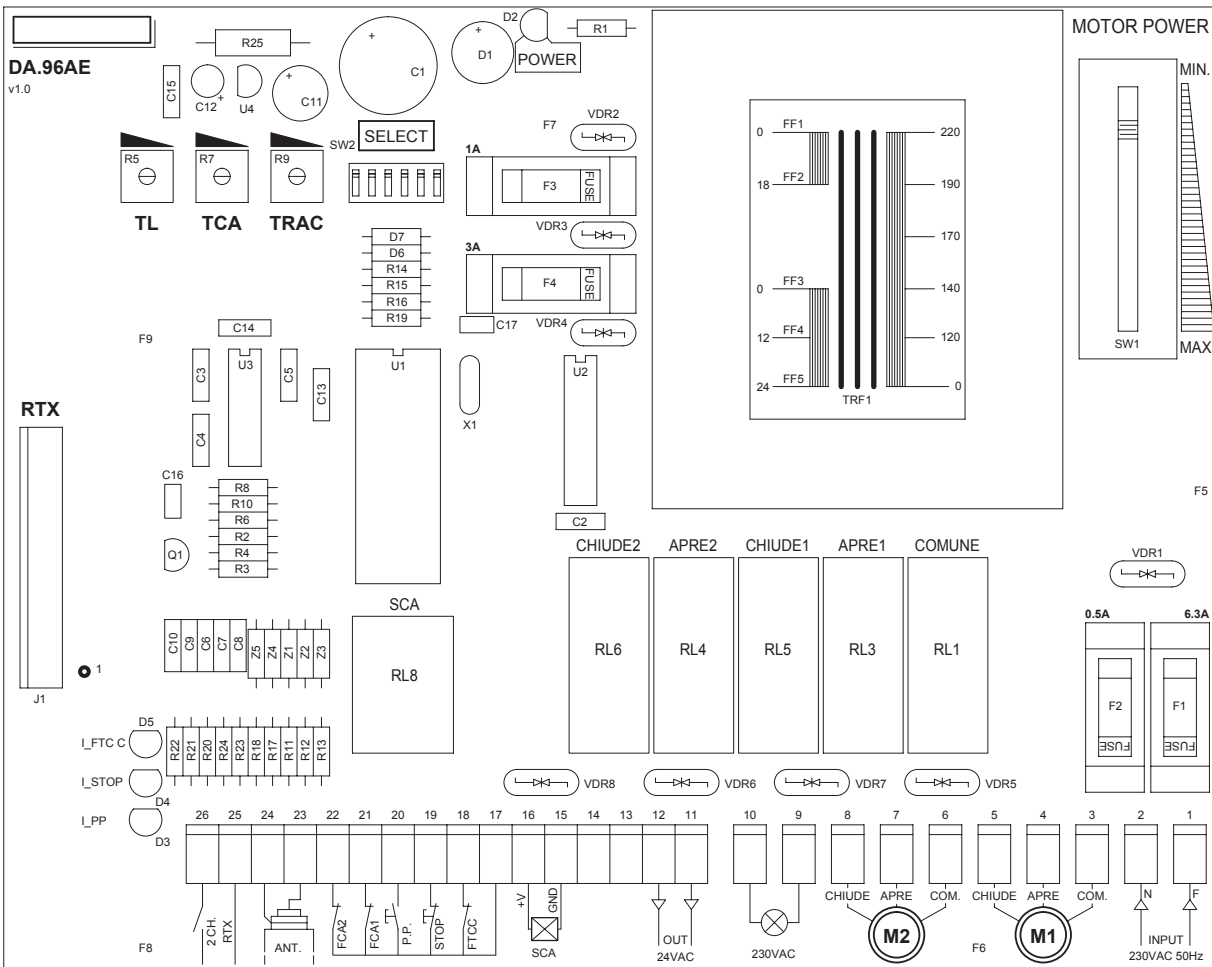
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BENINCA®

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



DA.96AE Control unit with microcontroller

The "DA.96AE" control unit with microcontroller is suitable for 2 motors with up to 750W total power.

Installation instructions.

- a) The electrical installation and functioning logic must comply with current standards.
- b) Keep the power cables (for the motor and power supply) away from the control cables (buttons, photocells, radio). To avoid interference use two separate sheaths (see EN 60204-1 15.1.3).
- c) Check all the connections again before supplying voltage.
- d) Check that the Dip-Switch settings are as required.
- e) When voltage is supplied, the "POWER" led should light up. If this is not the case, check the state of the fuses and whether 230VAC 50 Hz power is present between terminals 1 and 2 (INPUT 230VAC - respect phase/neutral wire position).
- f) The N.C. inputs not used must be connected to the common "+V".

Input/Output functions

- (1,2) INPUT 230VAC= Control unit 230VAC 50 Hz power supply (respect phase/neutral wire position).
- (3,4,5) COM/APRE/CHIUDE M1= Connection to the corresponding 230VAC 50 Hz motor terminals (delayed in closing) (the earth wire (green/yellow) must be connected).
- (6,7,8) COM/APRE/CHIUDE M2= Connection to the corresponding 230VAC 50 Hz motor terminals (delayed in opening) (the earth wire (green/yellow) must be connected).
- (9,10) LAMP230= Connection to the 230VAC blinker.
- (11,12) OUT 24VAC= 24VAC auxiliary power supply output (1A max.).
- (13,14) Spare.
- (15,16) SCA= 24VDC "Gate open warning light" contact (250mA).
Function for the "Gate open warning light" contact.
- If the gate is closed, the warning light is turned off.
 - If the gate is opening, the warning light flashes slow (about 1Hz).
 - If the gate is closing, the warning light flashes fast (about 2Hz).
 - If the gate is open, or the race is interrupted manually (PP - STOP), the warning light remains turned on.
- N.B.: The led is driven by a relay, thus the commutation can be normally heard during the normal function of the control board.
- (17) +V= Common connection to all the control inputs.
- (18) FTCC= Closing photocell receiver input (n.c. contact).
- (19) STOP= STOP button input (n.c. contact).
- (20) P.P.= STEP-by-STEP button input (n.o. contact).
While the STEP-by-STEP button is pressed (closed contact), the automatic closure is inhibited.
- (21) FCA1= Limit switch input - M1 motor opening (n.c. contact).
- (22) FCA2= Limit switch input - M2 motor opening (n.c. contact) - opening delay.
- (23,24) ANT.= Input of radio board antenna
- (25,26) RX 2CH.= Radio board 2nd channel contact (n.o. contact).

Dip-switch functions

N.B.: Every change of functions have to be done without electricity.

DSW1= This selects the type of functioning of the P.P. button and Remote control.
Off= "OPEN" - "STOP" - "CLOSE" functioning
On= "OPEN" - "CLOSE" - "OPEN" functioning.

DSW2= This enables or disables the pre-blinking function (4 sec.).
Off= Pre-blinking disabled.
On= Pre-blinking enabled.

DSW3= With this Dip-Switch the electric lock (1.5 sec) + recoil is enabled or inhibited.
Off= Electric lock + recoil are inhibited
On= Electric lock + recoil are enabled

DSW4= It selects the type of intervention of the "Photocell FTCC" input in the opening phase.
Off= No intervention
On= Temporary stop

DSW5= This enables or disables the automatic re-closing with the time set using the "TCA TRIMMER"
Off= Automatic re-closing enabled.
On= Automatic re-closing disabled.

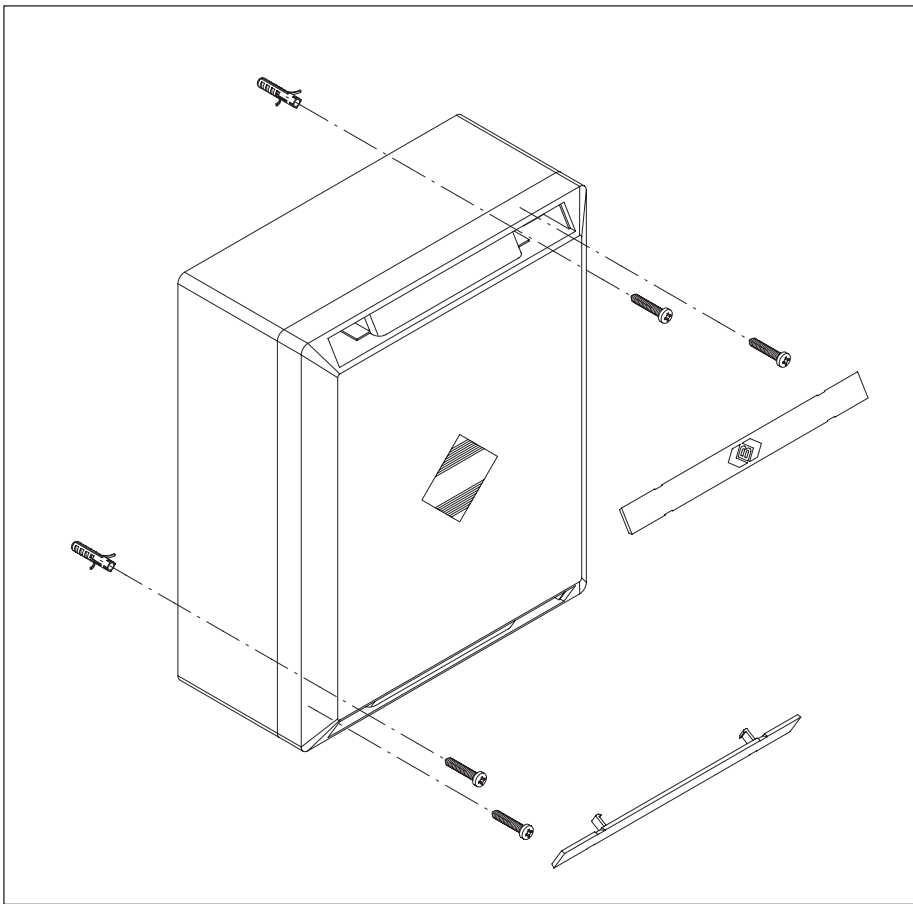
DSW6= It enables or inhibits the multiple-user function for blocks of flats of the "P.P. push-button" and the Remote control.
Off= Multiple-user function inhibited
On= Multiple-user function enabled

Trimmer functions

TCA= This allows the automatic re-closing time to be adjusted when this is enabled by positioning the DSW5 Dip-switch on OFF.
Adjustment can be from a minimum of 7 to a maximum of 160 seconds.
The minimum time is obtained by rotating the trimmer completely clockwise.

TL= This allows the working time of the automation to be adjusted. The software protection will intervene after this time has elapsed.
Adjustment can be from a minimum of 6 to a maximum of 90 seconds.
The minimum time is obtained by rotating the trimmer completely clockwise.

TRAC= This allows the gate leaf closing delay to be adjusted.
Adjustment can be from a minimum of 1 to a maximum of 15 seconds.
The minimum time is obtained by rotating the trimmer completely clockwise.



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