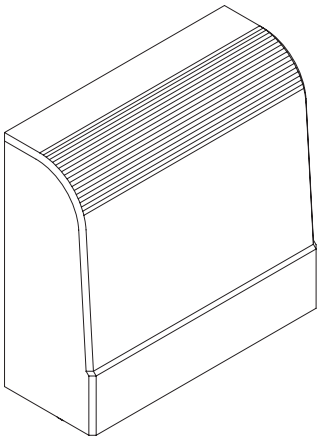
L8542340
Rev. 03/03/00

BENINCA®

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

DA.2XS433
DA.2XSE433
DA.2XS306



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 confirmity
EG-Konformitatserklarung

Déclaration CE de conformité
Declaracion CE de conformidad

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

DA.2XS433 / DA.2XSE433 / DA.2XS306

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 harmonisée utilisées, notamment:
Normas armonizadas utilzadas 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 harmonisée utilisées, notamment:
Normas armonizadas utilzadas 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 specifications techniques nationales qui ont été utilisées, notamment:
Normas y especificaciones técnicas nacionales que se utilizaron particularmente:

UNI 8612

Data/Firma

Data/Firma

BENINCÀ®

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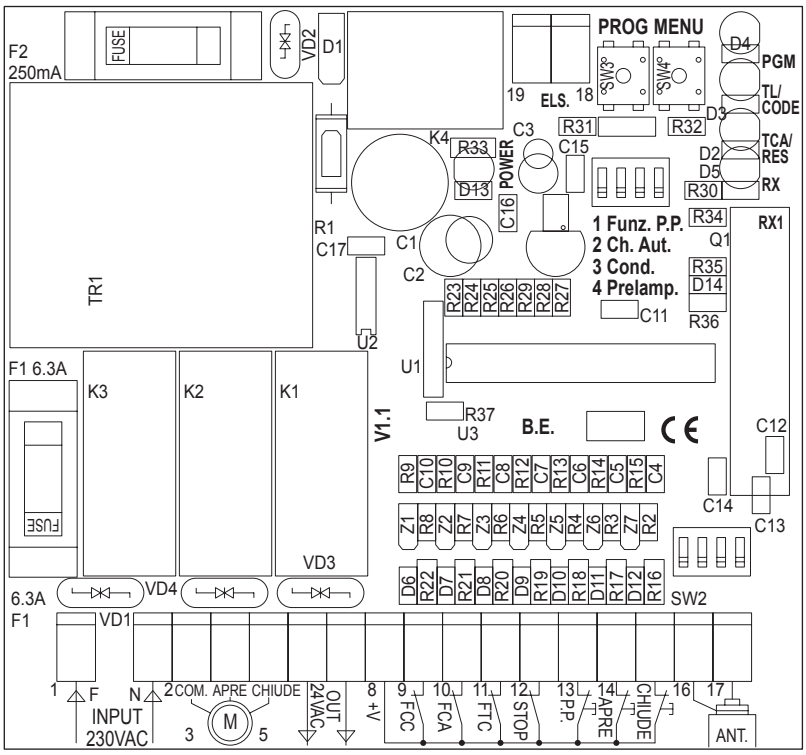
ITALIA


F2
250mA
FUSE
VD2
D1
PROG MENU
D4
PGM
TL/
CODE
19
ELS.
18
SW3
SW4
D3
R31
R32
K4
C3
R33
C15
TCA/
RES
D2
D5
D13
POWER
C16
R30
RX
R34
RX1
R1
C17
C1
Q1
1 Funz. P.P.
2 Ch. Aut.
3 Cond.
4 Prelamp.
C2
R35
D14
TR1
R23
R24
R25
R26
R29
R28
R27
C11
R36
U2
U1
F1 6.3A
K3
K2
K1
V1.1
R37
U3
B.E.
C12
R9
C10
R10
C9
R11
C8
R12
C7
R13
C6
R14
C5
R15
C4
C14
C13
Z1
R8
Z2
R7
Z3
R6
Z4
R5
Z5
R4
Z6
R3
Z7
R2
FUSE
VD3
D6
R22
D7
R21
D8
R20
D9
R19
D10
R18
D11
R17
D12
R16
SW2
6.3A
F1
VD4
VD1
1
F
N
INPUT
230VAC
2
COM.
APRE
CHIUDE
3
M
5
OUT
24VAC
8
+V
9
FCC
10
FCA
11
FTC
12
STOP
13
P.P.
14
APRE
CHIUDE
16
17
ANT.

DA.2XS433/DA.2XSE433/DA.2XS306 control unit with microcontroller

The control unit with microprocessor DA.2XS433/DA.2XSE433/DA.2XS306 can be used with motors having a power not exceeding 750W.

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) The normally closed contacts which are not in use should be short-circuited.
f) If the direction of the motor rotation is not correct, invert the ”OPEN” - ”CLOSE” wires of the motor and the limit switches wires “FCA” - “FCC”.

Input/Output functions

(1,2) INPUT230VAC= Control unit power supply, 230Vac, 50Hz (keep to phase/neutral).
(3,4,5) COM/APRE/CHIUDE= To relevant terminals of motor, at 230Vac, 50Hz.
It is mandatory to connect the Ground wire (yellow/green) onto the motor frame.
(6,7) OUT24VAC= Output, 24Vac auxiliary power supply (100mA max.).
(8) COM= Common to all control inputs.
(9) FCC= Input, closing limit switch (N.C. contact).
(10) FCA= Input, opening limit switch (N.C. contact).
(11) FTC= Input, photocell receiver (N.C. contact).
(12) Stop= Input, Stop push-button (N.C. contact).
(13) P.P.= Input, Step-by-Step push-button (N.O. contact).
(14) Apre= Input, Open push-button (N.O. contact).
(15) Chiude= Input, Close push-button (N.O. contact).
(16,17) ANT.= Input, antenna

In the version DA2XSE only

(18,19) ELS.= Free contact for connection to electric lock.
The power supply of ELS should be provided separately.

If a Flashing light is to be mounted, it should be connected between terminal 1 (input, phase) and terminal 3 (connection to motor common).

The control unit is equipped with a built-in radio module for the reception of both fixed code and variable code remote controls.
To use a remote control its data should be stored in the unit memory. This procedure is shown hereunder. The unit is able to memorize up to 14 different codes.

Dip-switch functions

DSW1= Operating mode for “P.P.” (Step-by-Step) button and remote control.
Off= Operation: “APRE” - “STOP” - “CHIUDE” (OPEN - STOP - CLOSE)
On= Operation: “APRE” - “CHIUDE” - “APRE” (OPEN - CLOSE - OPEN)
DSW2= It enables or disables the automatic closure.
Off= Automatic closure disabled
On= Automatic closure enabled
DSW3= It enables or disables the “multi-flat” function.
Off= Multi-flat function disabled
On= Multi-flat function enabled
DSW4= It enables or disables the forewarning flashing light.
Off= Forewarning light disabled
On= Forewarning light enabled

Programming the control unit
Gain access to the programming mode of the control unit by pressing the MENU push-button.
After the first pressure of the button the PGM LED, which is usually flashing, will feature a fixed light to indicate that the programming mode has been entered.

Presetting the operating time (TL)
When the PGM and the TL LED's (first and second from top) are switched on simultaneously, the control unit is ready to store the operating time in memory. When this time has elapsed, the motor stops even if the limit switches have not been reached.
The following presetting (Automatic closure) is entered by pressing the MENU button.
When the PROG button is pressed, the motor starts in the opening phase. The motor carries on the opening movement for as long as the button is kept pressed. When the button is released, the motor stops and the operating time is memorized. The control unit then exits the programming mode. The time in seconds can be calculated with the flashing of the TL LED, which performs a flashing each second.
The maximum value of TL is 255 s (4 min and 15 s). Once the maximum value is reached, the control system stores the value in memory even though the button is not released.

Presetting the automatic closure time (TCA)
The automatic closure time can be preset by pressing the Menu push button twice.
When the PGM and the TCA LED's (first and third from top) are switched on simultaneously, the control unit is ready to store the automatic closure in memory.
When the PROG button is pressed, the TCA LED starts flashing and continues flashing for as long as the button is kept pressed. When the button is released, the LED stops flashing the TCA is memorized. The control unit then exits the programming mode.
The time in seconds can be calculated with the flashing of the TCA LED, which performs a flashing each second. The maximum value of TCA is 255 s (4 min and 15 s). Once the maximum value is reached, the control system stores the value in memory even though the button is not released.

Erasing the remote control codes from memory
The remote control codes can be erased from memory by pressing the Menu push button 3 times.
When the PGM, RX and TCA/RES LED's (first, third and fourth from top) are switched on simultaneously, the control unit is ready to erase the codes from memory.
When the PROG button is pressed, the TCA/RES LED switches off and erasing of memory starts; when the LED starts flashing the operation is ended. If the button is still pressed, the control unit will wait to restart operation, otherwise it will start immediately.

Storing a new code in memory
A new remote control code can be stored in memory by pressing the Menu push button 4 times.
When the PGM, RX and TL/CODE LED's (first, second and fourth from top) are switched on simultaneously, the control unit is ready to store a new code in memory. If RX and TL/CODE LED's are flashing alternatively, this means that memory is full and no more new codes can be stored.
By pressing the MENU button it is possible to exit the programming mode.
If memory is not full, the control unit waits for the typing in of the new remote control code. The TL/CODE LED indicates that programming has been successfully carried out with 5 flashes. The control unit exits the programming mode automatically.

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