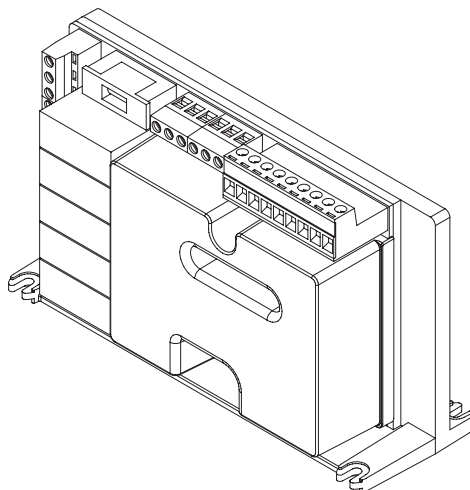


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Rev. 07/04/02

BENINCA®

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

MBE



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



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
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

MBE

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 elektromagne-
tycznego (89/336/EWG, 93/68/EWG)

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)

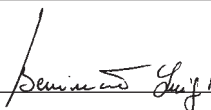
Norme armonizzate applicate in particolare:
Applied harmonized standards, in particular:
Angewendete harmonisierte Normen, insbesondere:
Normes harmonisée utilisées, notamment:
Normas armonizadas utilizadas particularmente:
Normy standard najczęściej stosowane:

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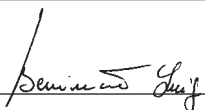
EN 55022, EN 61000-3-2, EN 61000-3-3, EN 50082-1

EN 60204-1, EN 60335-1

Data/Firma

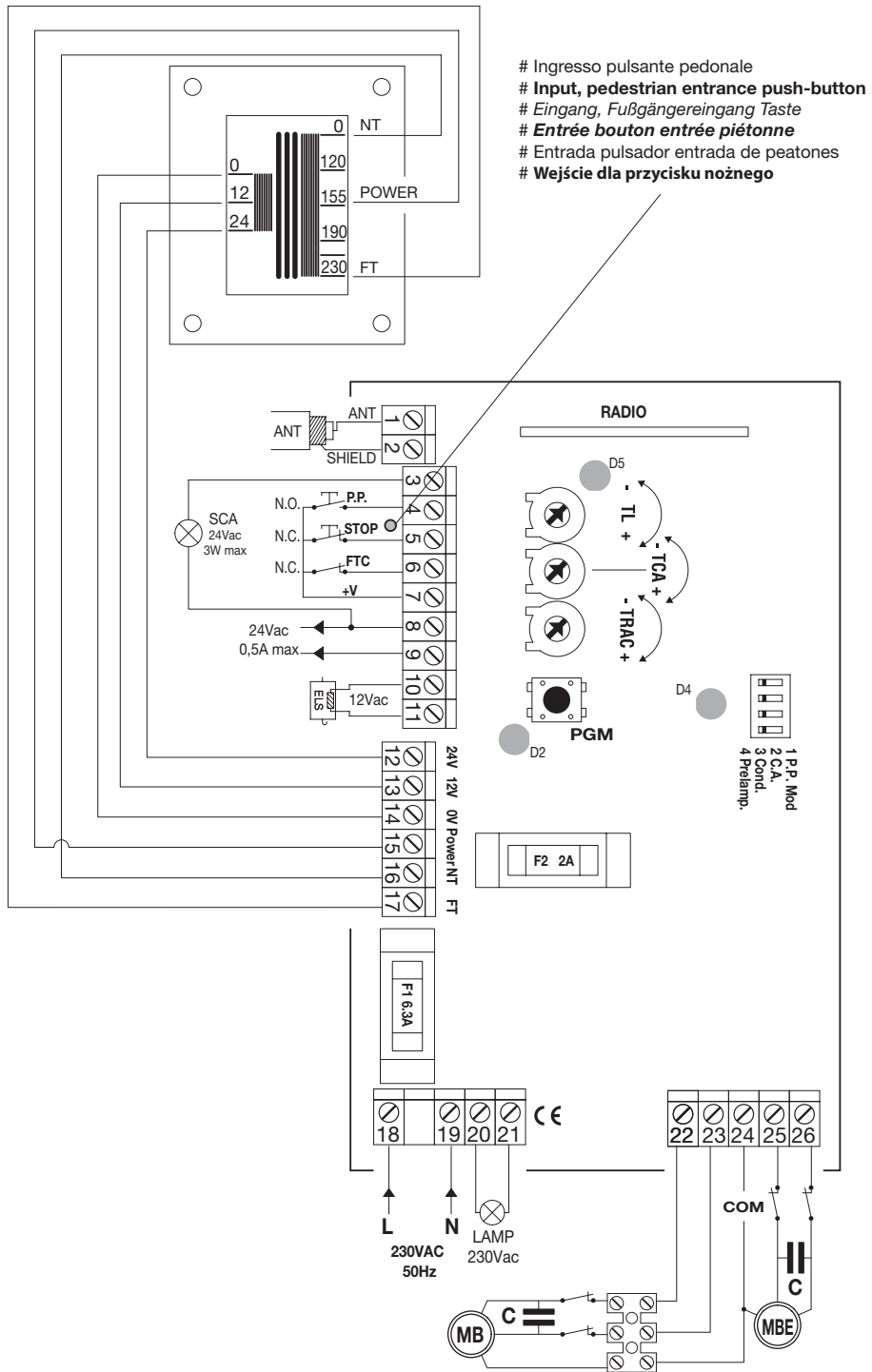


Data/Firma



BENINCA®

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



MBE control unit

The electronic control unit MBE can be used to control 1 or 2 motors MB/MBE.

GENERAL WARNINGS

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

INPUT/OUTPUT FUNCTIONS

Terminal No.	Function	Description
1	ANT	Antenna Signal
2	SHIELD	Antenna Shield
3-8	SCA	Indicator lamp, Open gate
4	P-P	Input, N.O. step-by-step push-button
5	STOP	Input, N.C. STOP push-button
6	FTC	Input, safety devices connection, N.C. terminal (e.g. photocells)
7	+V	Common to all control inputs.
8-9	24 Vac	Output, accessories power supply 24Vac/0,5 A max.
10-11	ELS	Electric lock connection, 12Vac/0,5A max.
12-13-14	24-12-0	Connection to transformer secondary winding
15-16-17	POWER-NT-FT	Connection to transformer primary winding
18-19	Power supply	Input, 230Vac 50Hz (18-Phase/19-Neutral)
20-21	LAMP	Output, flashing light connection, 230Vac 40W max.
22-23-24	MB Motor	Connection to MB motor (without control unit): (22-movement/23-movement/24 com)
24-25-26	MBE Motor	Connection to MBE motor (with control unit): (24-com/25-movement/26 movement)
#	Pedestrian	To use the pedestrian entrance, connect the normally open (N.O.) push-button between +V (control common) and the little knob near terminal STOP (see wire diagram).

To check connections:

After adjusting the limit switches as shown in the actuator instruction manual, proceed as follows:

- 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. (22/23 for motor MB, and 25/26 for motor MBE).
- 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 (POWER) connector is provided on the power supply transformer which allows the power adjustment of the motors on 3 different levels. By moving the Faston (POWER) to 120, power is at minimum, by moving it to 190, power is at maximum.

WARNING! : As the MB/MBE actuator is not equipped with adjustable mechanical clutch, the POWER faston must never be moved to 230V position.

Dip-Switch functions

DIP 1	"P.P. Mod"	The operating mode of "Pulsante P.P." (Step-by-step push button) and of the transmitter is selected. Off: operation : APRE > STOP > CHIUDE > STOP > On: operation: APRE > CHIUDE > APRE >
DIP 2	"C.A."	Automatic closure is enabled or disabled. 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.
DIP 4	"Prelam."	Forewarning flashing light enabled or disabled Off: disabled forewarning flashing light On: enabled forewarning flashing light. The flashing light is activated 3 s before the motor starts.

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

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
TL	The maximum time of the opening and closing phases can be adjusted with this trimmer. 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.
TRAC	It allows to adjust the delay time with which motor MBE starts closing with respect to motor MB. Adjustment range from 3 s minimum to 30 s maximum. During opening, the out of phase time of the motors is 2 seconds.

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.

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 functions

LED D2	Access when the unit is powered
LED D4	Radio receiver programming
LED D5	This LED switches on when radio signals are received on the built-in module frequency.

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