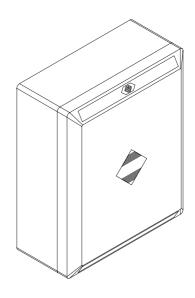
L8542067 Rev. 03/05/01



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

DA.24V



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

Libro istruzioni



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

DA.24V

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 utilizadas particularmente: Normy standard najczęściej stosowane:

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

Seminant Juy

Data/Firma '

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)

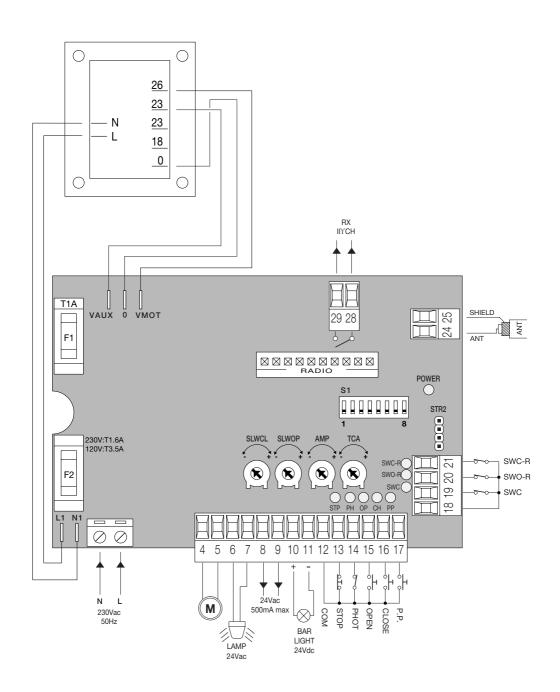
Norme armonizzate applicate in particolare: Applied harmonized standards, in particular: Angewendete harmonisierte Normen, insbesondere: Normes harmonisée utilisées, notamment: Normas armonizadas utilzadas particularmente: Normy standard najczęściej stosowane:

EN 60204-1, EN 60335-1

Data/Firma

BENINCA®

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



DA.24V Control Unit

Control unit for 24Vdc motors with power not exceeding 120W to control road barriers.

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 setting of the Dip-switches are the required ones.
- f) The Normally Closed (N.C.) contacts which are not in use should be short-circuited.

INPUT/OUTPUT FUNCTIONS

N° of terminals	Function	Description
1-2	Power supply	Input, 230Vac 50Hz (1-Neutral/2-Phase)
4-5	Motor 24Vdc	Connection to motor, 24Vdc
6-7	Flasher	Flasher connection, 24Vac 40W max.
8-9	24 Vac	Output, accessories power supply - 24Vac/0.5A max.
10-11	Road barrier lights	Connection of barrier beam lights, 24Vdc (10+/11+) -200mA max (equal to approx. 6 lights).
12	СОМ	Common to all control inputs.
13	STOP	Input, STOP push-button (N.C. contact)
14	PHOT	Input, safety devices connection, N.C. contact (ex. Photocells)
15	OPEN	Input, OPEN push-button (N.O. contact)
16	CLOSE	Input, CLOSE push-button (N.O. contact)
17	Step-by-Step	Input, step-by-step push-button (N.O. contact)
18	СОМ	Common, limit switches.
19	SWC	Input, CLOSURE limit switch (N.C. contact). When this contact is opened, power supply to the motor is cutoff at the end of the road barrier closing operation.
20	SWO-R	Input, braking limit switch in the opening phase (N.C. contact). When this contact is opened, braking starts during the barrier opening phase.
21	SWC-R	Input, braking limit switch in the closing phase (N.C. contact). When this contact is opened, braking starts during the barrier closing phase.
24-25	Antenna	Connection of the antenna radio receiver removable board (24-signal/25-screen).
28-29	Radio 2 nd Ch	Output, N.O. contact of the second radio channel.
VAUX-0-VMOT	Secondary	Connection of the transformer secondary winding
L1-N1	Primary	Connection of the transformer primary winding
J3	Radio receiver	Removable connector for radio receiver.
STR2	SERIAL	Connector, option board for serial connection of more than one road barriers. For further information see specific instructions.

Trimmer functions

SLOWCL The motor speed during braking in the closing phase is adjusted by this trimmer.

Braking starts with the triggering of the SWC-R limit switch and ends when the SWC limit

switch is activated.

SLOWOP The motor speed during braking in the opening phase is adjusted by this trimmer.

Braking starts with the triggering of the SWO-R limit switch and ends when the time preset

This trimmer allows the adjustment of the automatic closure time if activated by Dip-Switch

with Dip-Switch N°8 has elapsed.

AMP The obstacle detection amperometric sensor sensitivity is adjusted by this trimmer.

The sensor is activated in both opening and closing phases.

It is not activated during braking in the opening phase.

Should an obstacle be detected:

In the opening phase, the road barrier movement is stopped.

In the closing phase, the barrier is stopped and then re-opened completely.

No. 1.

TCA

The adjustment ranges between 1s minimum and 90s maximum

Dip-Switch functions

DIP 1 "TCA" The automatic closure is enabled or disabled

Off: disabled automatic closure On: enabled automatic closure

DIP 2 "PRELAM." Forewarning flashing light is enabled or disabled

Off: disabled forewarning flashing light

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

starting of the motor.

DIP 3 "**UP**" The "Service man" function is enabled or disabled

Off: deactivated Service man function. On: activated Service man function.

Only OPEN/CLOSED controls are activated: these buttons must be kept pressed

for the entire duration of the operation (movement controlled at sight).

PHOT and P.P. inputs are disabled. Amperometric sensor and STOP are

activated.

DIP 4 "P.P. Mod" The operating mode of the "P.P. (Step-by-Step) Push button" and of the transmitter

are selected.

Off: Operation: OPEN > STOP > CLOSE > STOP >

On: Operation : OPEN > CLOSE > OPEN >

DIP 5 "LIGHT" The operating mode of the road barrier lights connected to terminals 10/11 is

selected.

Off: Continuous flashing of lights in the opening phase and with open barrier.

On: Steady light on with open barrier. To be used as open barrier warning light or

for connection to 24Vdc devices for vehicle counting.

DIP 6 "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 and during TCA phase (if

activated).

DIP 7 "AMPCL" The amperometric sensor is enabled or disabled during braking in the closing

phase.

Off: Enabled amperometric sensor during braking in the closing phase On: Disabled amperometric sensor during braking in the closing phase..

DIP 8 "Trall-OP" The duration in seconds of braking in the opening phase is selected.

Select time according to the speed of the road barrier beam and the triggering

point of the braking limit switch in the opening phase

Off: 4s braking On: 2s braking

To adjust the road barrier speed

WARNING! This adjustment affects the safety level of the automatic system. Check that the force applied to the road barrier beam complies with regulations in force. Any change in speed requires a new calibration of the amperometric sensor.

A Faston (VMOT) connector is provided on the power supply transformer. This allows for the adjustment of the road barrier motor speed at three different levels (18-23-26).

By positioning the Faston (VMOT) to 18 a lesser speed is provided, by moving the Faston to 26 a higher speed is provided.

Should the VE.AM mobile stand or the VE.RAST rack be present, reduce the beam speed.

Diagnostics of LEDs

The control unit is provided with a series of self-diagnostic LEDs which permit to check all functions:

POWER LED It flashes to indicate the presence of mains power supply

STOP LED It switches off when the STOP button is activated

PHOT LED It switches off when the photocells are not aligned or in the presence of obstacles

OPN LED It switches on when the OPEN button is activated
CLS LED It switches on when the CLOSE button is activated
PP LED It switches on when the PP button is activated

SWC LED It switches on when the SWC closing limit switch is activated

SWO-R LED It switches on when the SWO-R opening braking limit switch is activated SWC-R LED It switches on when the SWC-R closing braking limit switch is activated

