

CENTRALE DI COMANDO

CONTROL UNIT

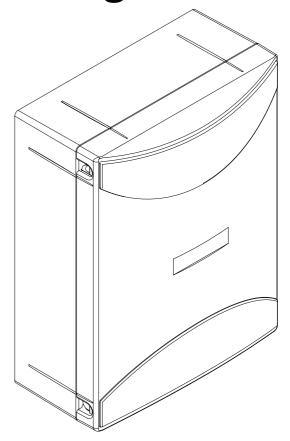
STEUEREINHEIT

CENTRALE DE COMMANDE

CENTRAL DE MANDO

CENTRALKA STEROWANIA

Logica 230 Logica 230 RI



Libro istruzioni

Operating instructions

Betriebsanleitung

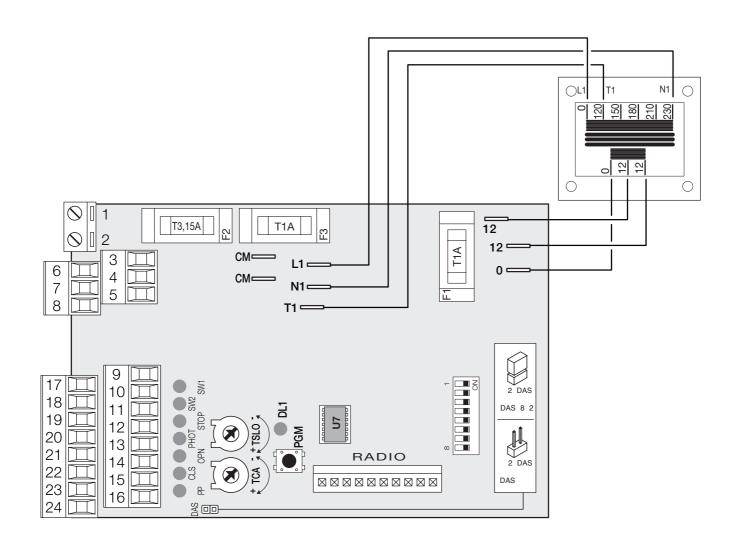
Livret d'instructions

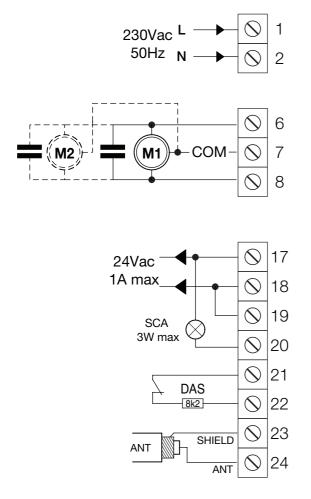
Manual de instrucciones

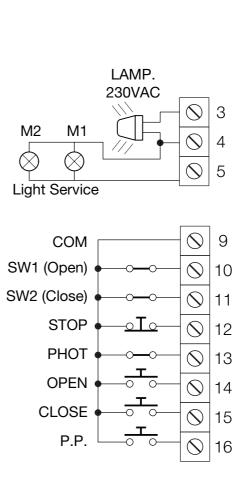
Książeczka z instrukcjami



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







CE Declaration of Conformity

Declaration in accordance with Directives 2004/108/CE (EMC); 2006/95/CE (LVD)

The Manufacturer:

AUTOMATISMI BENINCÀ SPA

Address:

Via Capitello, 45 - 36066 Sandrigo (VI) - Italy

Declares that the product:

Control box for 1 motor, for LOGICA tilt-up doors - CP.ZED230E

conforms with the requirements of the following EU Directives:

• DIRECTIVE 2004/108/CE OF THE EUROPEAN PARLIAMENT AND COUNCIL, 15 December 2004, in relation to the harmonisation of the legislation of member states regarding electromagnetic compatibility, in abrogation of Directive 89/336/CEE, per the following harmonised standards:

EN 61000-6-2:2005, EN 61000-6-3:2007.

• DIRECTIVE 2006/95/CE OF THE EUROPEAN PARLIAMENT AND COUNCIL, 12 December 2006, in relation to the harmonisation of the legislation of member states regarding electrical material intended to be used within certain voltage ranges, per the following harmonised standards:

EN 60335-1:2002 + A1:2004 + A11:2004 + A12:2006 + A2:2006 + A13:2008; EN 60335-1-103:2003.

as applicable

• DIRECTIVE 1999/5/CE OF THE EUROPEAN PARLIAMENT AND COUNCIL, 9 March 1999 in relation to radio equipment and telecommunications terminals and the mutual recognition of their conformity, per the following harmonised standards:

ETSI EN 301 489-3 V1.4.1 (2002) + ETSI EN 301 489-1 V1.4.1 (2002) + ETSI EN 300 220-3 V1.1.1 (2000) + EN 60950-1 (2001)

Benincà Luigi, Legal representative. Sandrigo, 08/07/2008.

Logica230 Control unit

The electronic control unit Logica230 can be used to control 1 or 2 motors with a power not exceeding 300W+300W.

IMPORTANT: Should two motors be used, connect the limit switches of one single motor to the control unit.

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 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) Normally Closed inputs which are not in use should be short-circuited 230VAC keep to phase/neutral).

INPUT/OUTPUT FUNCTIONS

Logica230 Control Unit			
Terminal No.	Function	Description	
1-2	Power supply	Input, 230VAC 50Hz (1-Phase/2-Neutral)	
3-4	Flashing light	Connection of flashing light, 230Vac 40W max.	
4-5	Light, Motor	Connection to the courtesy light	
6-7-8	Motor 1/2	Connection to motor 1/2 : (6-speed/7-Com/8-speed) Should 2 motors be used, connect the second motor in parallel.	
9	СОМ	Common for limit switch and all control inputs.	
10	SWO	Input, OPEN limit switch (N.C. contact)	
11	SWC	Input, CLOSE limit switch (N.C. contact)	
12	STOP	Input, STOP push button (N.C. contact)	
13	PHOT	Input, connection to safety devices, N.C. contact (e.g. Photocells)	
14	OPEN	Input, OPEN push button (N.O. contact)	

15	CLOSE	Input, CLOSE push button (N.O. contact)
16	Step-by-Step	Input, step-by-step push button (N.O. contact)
17-18	24 Vac	Output, power supply of accessories, 24Vac/1A max.
19-20	SCA	Free contact, N.O. for open door warning light.
21-22	COSTA	Input, safety edge contact Resistive edge: Closed "DAS" jumper Mechanical edge: Open "DAS" jumper If the safety edge is activated in the opening phase, the gate stops. In the closing phase, the gate stops and the performs a movement reversion (opens) for 3s.
23-24	Aerial	Connection to the radio receiver card of the aerial (23-screen/24-signal).
CM-CM	Capacitor	Connection, capacitor
0-12-12	Secondary	Connection, winding of secondary transformer
L1-N1-T	Primary	Connection, winding of primary transformer
J3	Radio receiver	Connector for radio receiver. The RI versions have a built-in radio receiver

REMARKS:

The courtesy light stays on for about 90s at each operation.

The safety EDGE should be connected only to the special inputs. Two types of EDGE can be used:

If a safety edge is used with 8K2 resistance, the "DAS" jumper should be closed.

If a mechanical safety edge with N.C. contact is used, the "DAS" Jumper should be opened.

If no edge is used, terminals 21-22 should be short-circuited.

TO ADJUST THE LIMIT SWITCHES

- 1) Power the control unit
- 2) Manually release the system and completely open the door.
- 3) Adjust the opening limit switch cam, the SWO LED turns off.
 - If braking is required in the opening phase, the limit switch triggering should be anticipated.
- 4) Shut the door completely.
- 5) Adjust the closing limit switch cam, the SWC LED turns off.
 - If braking is required in the closing phase, the limit switch triggering should be anticipated.
- 6) Cut off power supply.
- 7) Move the door half-way and lock it again.
- 8) Reset power supply. The STOP, PHOT, SWO and SWC LED's should light up.
- 9) Give a step-by-step control signal by pressing the appropriate button or using the remote control.
- 10) The door should move in the opening phase. In the negative, it is sufficient to invert the speed wires (6<>8) of the motor and the limit switch inputs (SWO<>SWC).
- 11) Adjust Time and Operating and Motor power logic.

If braking is required, move DIP3 to ON and adjust the braking time of trimmer TSLOW.

TO ADJUST THE MOTOR POWER

WARNING! This adjustment affects the safety level of the automatic system.

Check that the thrust applied onto the wing complies with regulations in force.

On the power supply transformer, a Faston connector (T1) is provided which allows to adjust motor power to 4 different levels. By positioning the Faston (T1) on 120, the minimum power is obtained, by moving the Faston to 210 the maximum power is obtained.

FUNCTIONS OF THE TRIMMERS

TCA It allows to adjust the automatic closure time. Check Dip-Switch $N^{\circ}1=On$.

The adjustment varies from 1s minimum to 90s maximum

TSLOW With Dip-Switch 3 On, it adjusts the slowdown cycle time from 1 to 12 secs.

With Dip-Switch 3 Off, it adjusts the work time from 10 to 120 secs. In this case the slowdown option is disabled.

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 enabled or disabled

Off: disabled forewarning flashing light

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

DIP 3 "Rall." Enables or disables the slowdown cycle.

Off: Slowdown disabled. The TSLOW trimmer adjusts the motor work time from 10 to 120 secs.

Set a work time longer than the duration of an operation.

On: Braking in both opening and closing phases.

N.B.: the braking phase starts when the limit switches are triggered.

By using trimmer "TSLOW", preset a braking time slightly higher than the time required to complete the operation.

DIP 4 "P.P. Mod" The operating mode of "P.P. Push button" and of the transmitter are selected.

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

On: Operation: OPEN > CLOSE > OPEN >

DIP 5 "PHOT. AP." The photocells in the opening phase are enabled or disabled.

Off: enabled photocells in the opening phase. On: disabled photocells in the opening phase.

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.

DIP 7 "Spunto" The motor start pickup is enabled or disabled.

Off: disabled pickup.

On: enabled pickup. At the beginning of each operation the maximum torque of the motor is for approx. 2s.

DIP 8 "Radio" Only for "RI" versions. Enables or disables transmitters with programmable codes

On: Radio receiver enabled exclusively for rolling-code transmitters.

Off: Receiver enabled for both rolling-code and programmable transmitters (self-learn and dip-switch) .

LED DIAGNOSTICS

The control system has a series of self-diagnostics LED's which allow to check all functions:

SW1 LED

It switches off when the SWO opening limit switch is triggered

It switches off when the SWC closing limit switch is triggered

STOP LED

It switches off when the STOP push button is pressed

PHOT LED It switches off when the photocells are not aligned or if obstacles are present

OPN LED

It switches on when the OPEN push button is pressed

It switches on when the CLOSE push button is pressed

PP LED

It switches on when the PP push button is pressed

It switches on when the PP push button is pressed

It flashes to show the correct operation of the control unit.

5 guick flashes, followed by a pause, of LED PGM indicate the activation of the safety edge.

CONFIGURATION WITH BUILT-IN RECEIVER (ONLY "RI" VERSIONS)

The control unit is fitted with a built-in radio module for receiving remote controls both with fixed codes and variable codes (see dip-switch 8 functions), with a frequency of 433.92MHz.

For a transmitter to be used, the module first has to self-learn its code. The memorise procedure is illustrated below, the module can memorise up to 64 different codes.

Memorising a new transmitter by activating the P.P. function

- Press the PGM button once for 1sec and the DL1 LED will start blinking at 1 sec intervals.
- Press the transmitter button within 10 sec to memorise with the P.P. (Step-by-step) function

To exit the programming procedure wait 10 sec or press the PGM button for 1 sec, the DL1 LED will return to normal blinking at 3 sec intervals.

Cancelling all transmitters from the memory

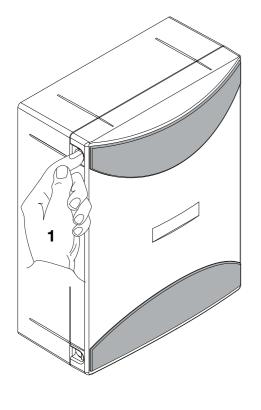
- Keep the PGM button pressed for 15 sec, the DL1 LED will start blinking rapidly and when it goes out the memory has been erased.
- Release the PGM button, the memory has been cancelled and the DL1 LED will return to normal blinking at 3 sec intervals.

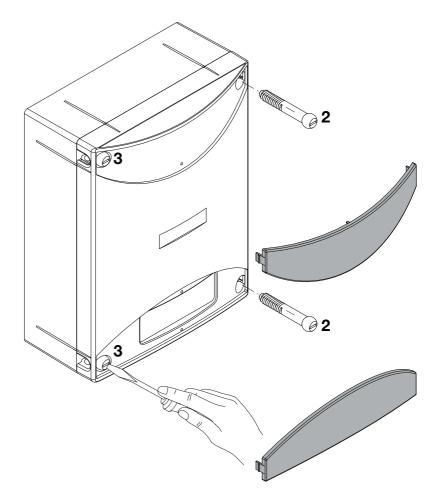
N.B.:

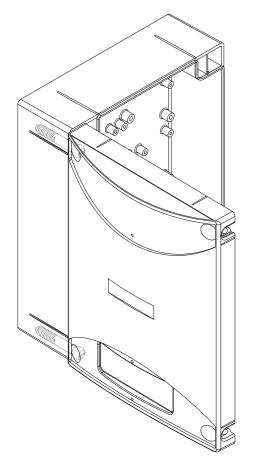
The transmitters are stored on an EPROM (U7) memory board that can be removed and installed in a new control unit in case of breakdown.

For safety reasons, transmitters cannot be memorised during the open/close cycles of the motor.

When entering the memorise transmitter procedure, if the DL1 LED gives a prolonged blink and then goes out, this signals that the receiver memory is full and no other transmitters can be memorised or that the transmitter is not compatible.







- 1 Premere le alette sui fianchi per sganciare le due maschere copriviti.
- 2 Rimuovere le due viti sul lato di apertura desiderato.
- cerniera senza rimuoverle, in modo da consentire l'apertura del coperchio.
- 1 Press the tabs on the sides to release 1 Presionar las aletas en los lados para the two masks that cover the screws.
- 2 Remove the two screws on the desired opening side.
- 3 Slacken the two screws that act as a hinge without removing them, so as to 3 Aflojar los dos tornillos con función de allow opening of the cover.
- 1 Auf die seitlichen Laschen drücken, so dass die beiden Schraubenblenden befreit werden.
- 2 Die beiden Schrauben an der gewünschten Öffnungsseite ausbauen.
- 3 Zuletzt die beiden als Scharnier dienenden Schrauben lockern, aber nicht ausbauen, damit der Deckel geöffnet werden kann.

- 1 Presser les deux ailettes latérales pour décrocher les deux cache-vis.
- 2 Enlever les deux vis sur le côté d'ouverture désiré.
- 3 Allentare le due viti con funzione di 3 Desserrer les deux vis faisant fonction de charnière sans les enlever, de manière à permettre l'ouverture du couvercle.
 - desenganchar las dos tapas cubretornillos.
 - 2 Extraer los dos tornillos del lado de apertura deseado.
 - bisagra sin extraerlos, a fin de poder abrir la tapa.
 - 1 Nacisnąć boczne klapki w celu odhaczenia dwóch masek nakry-wających śruby.
 - Wyciągnąć dwie śruby po wybranej do otwierania stronie.
 - 3 Poluzować dwie śruby blokujące bez wyciągania ich, w sposób umożliwiający otwarcie nakrywki.

