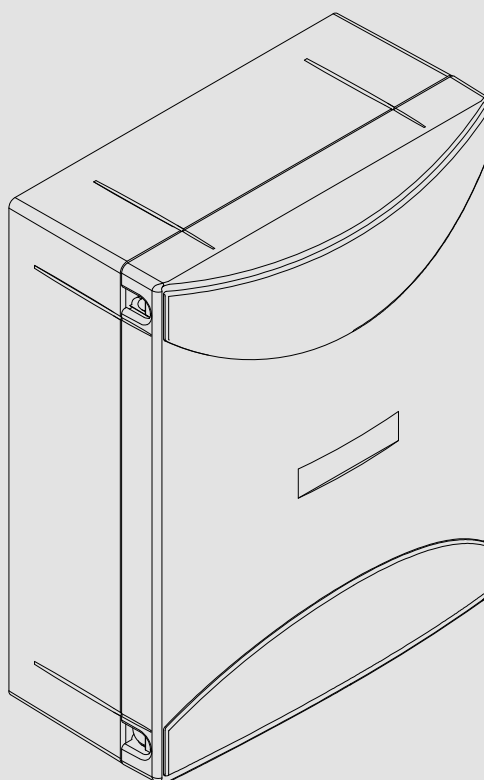


BRAINY



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BENINCA[®]
TECHNOLOGY TO OPEN



Fig. 1

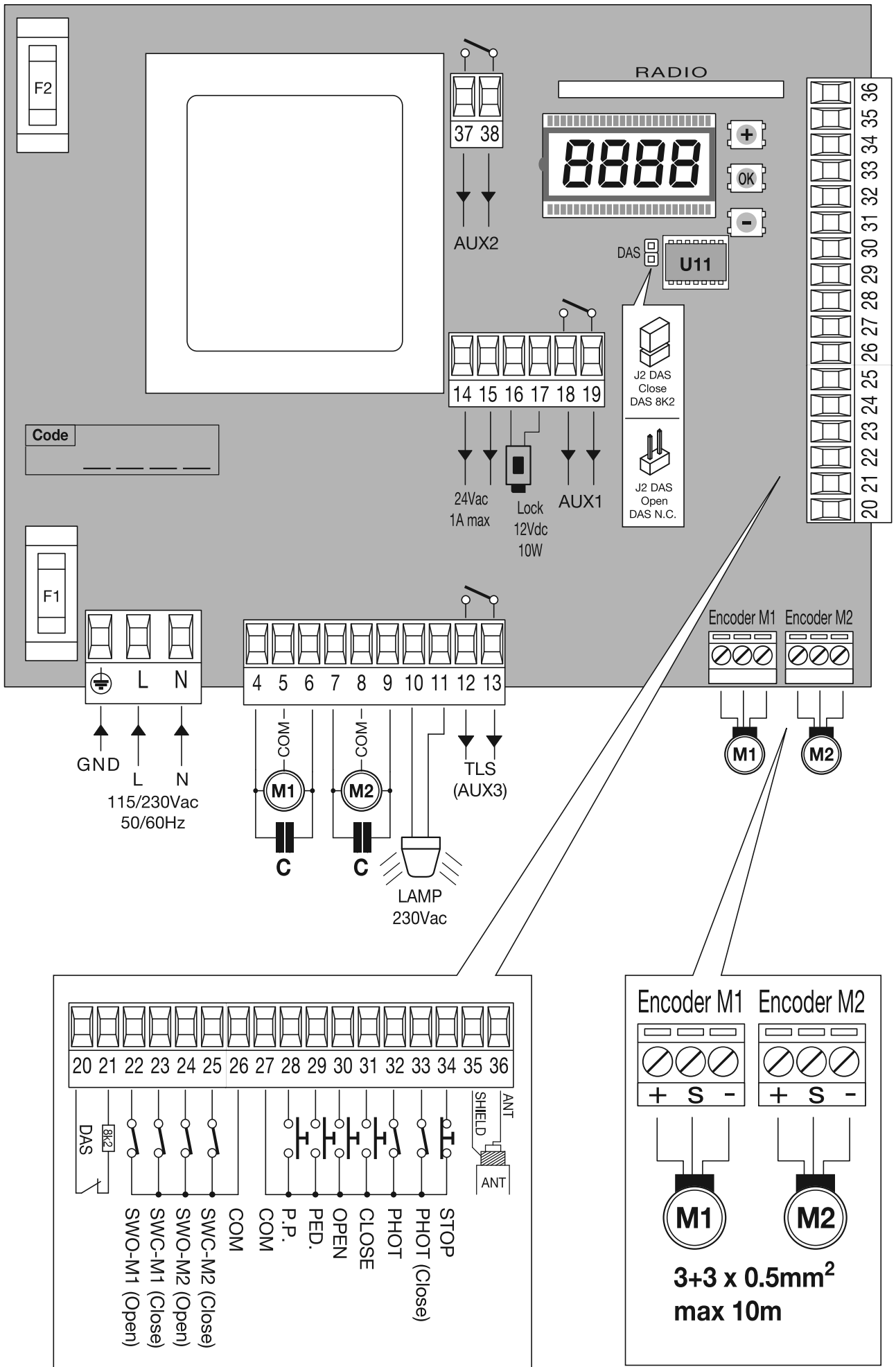
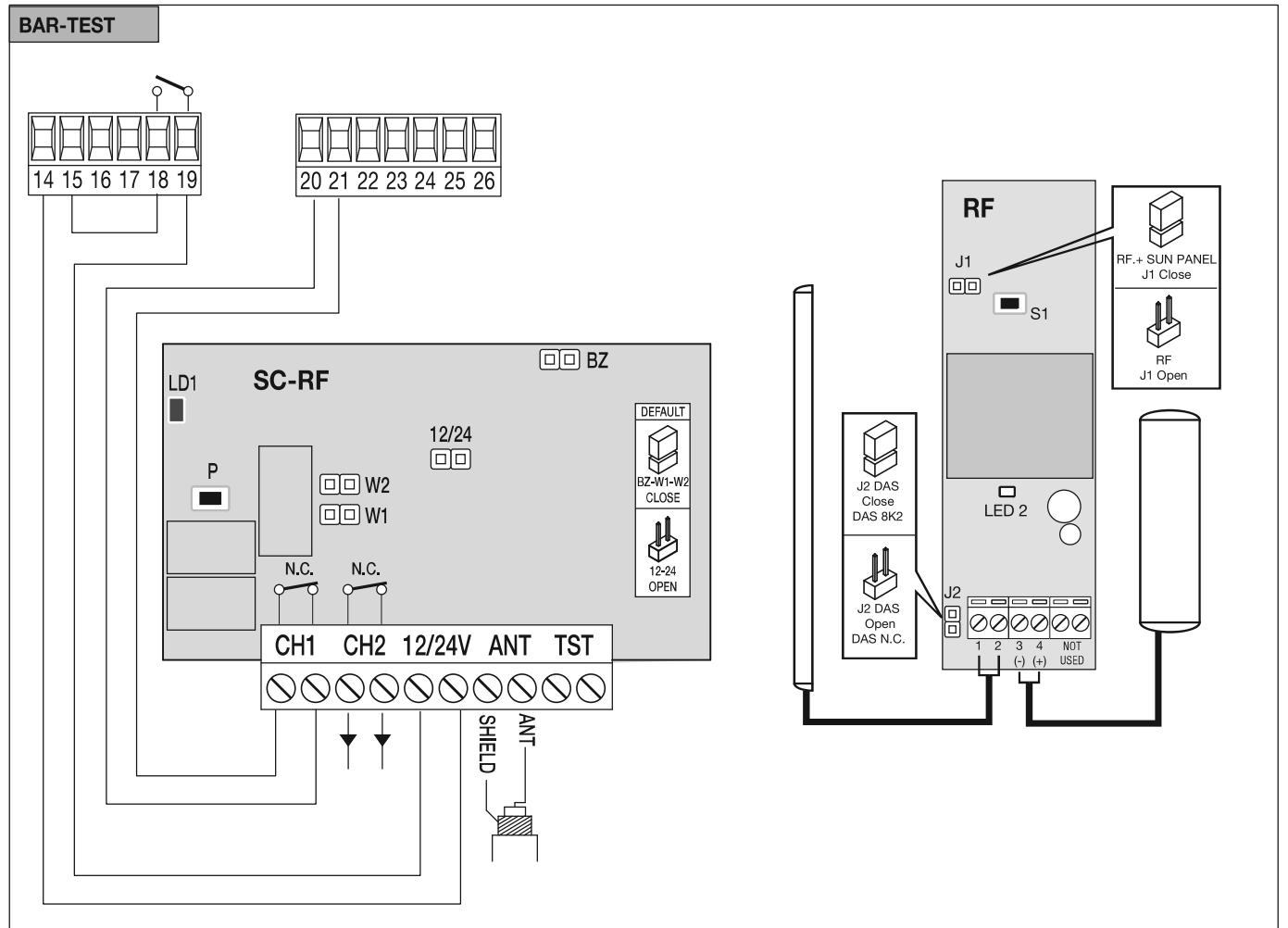
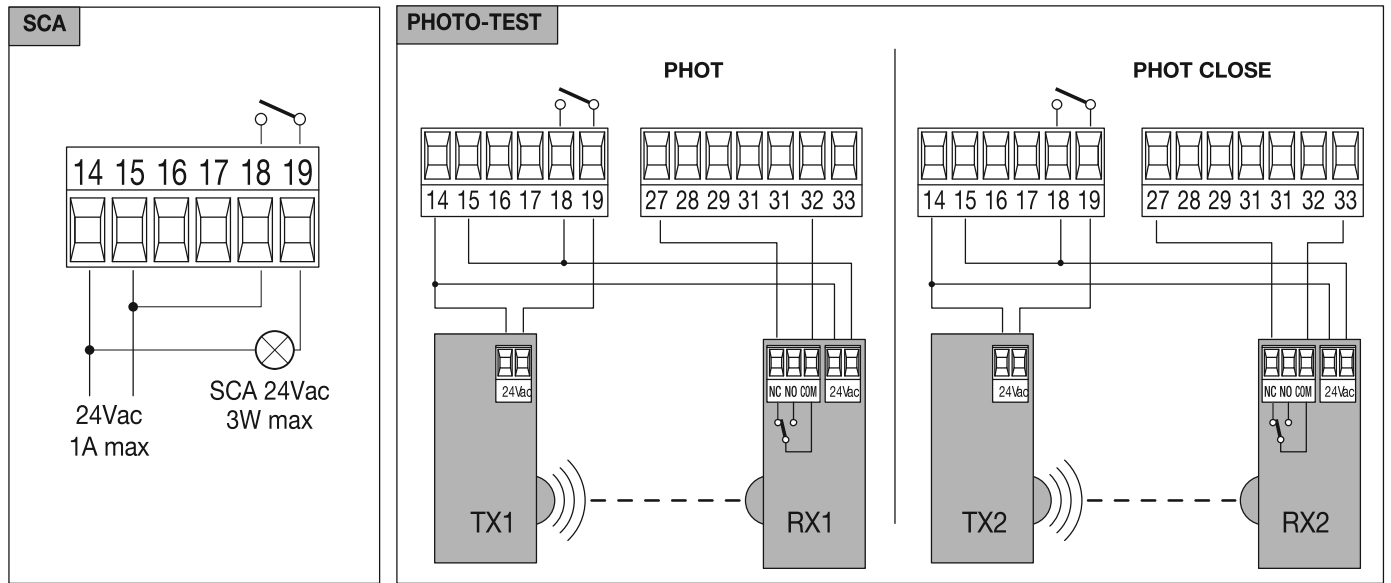
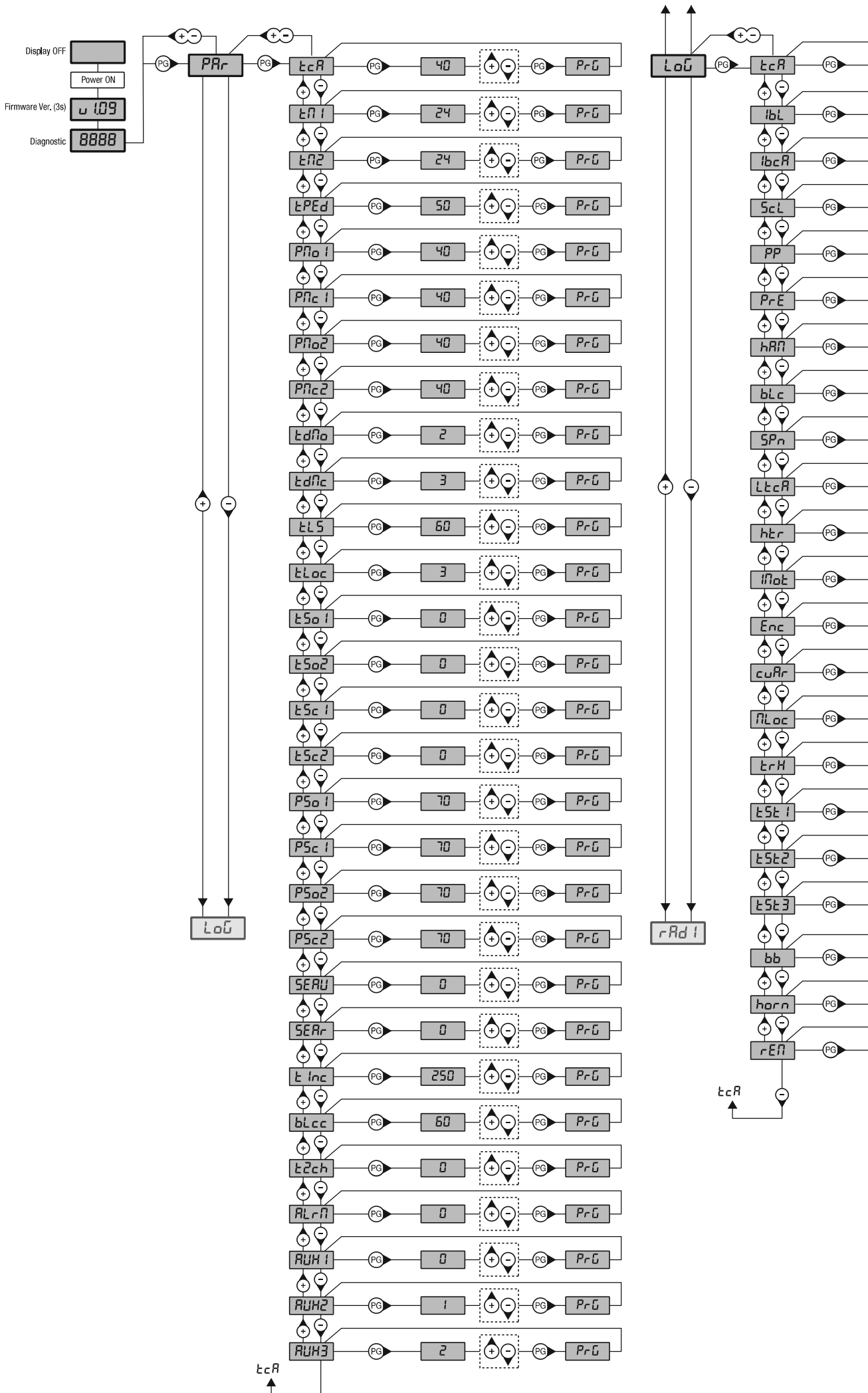
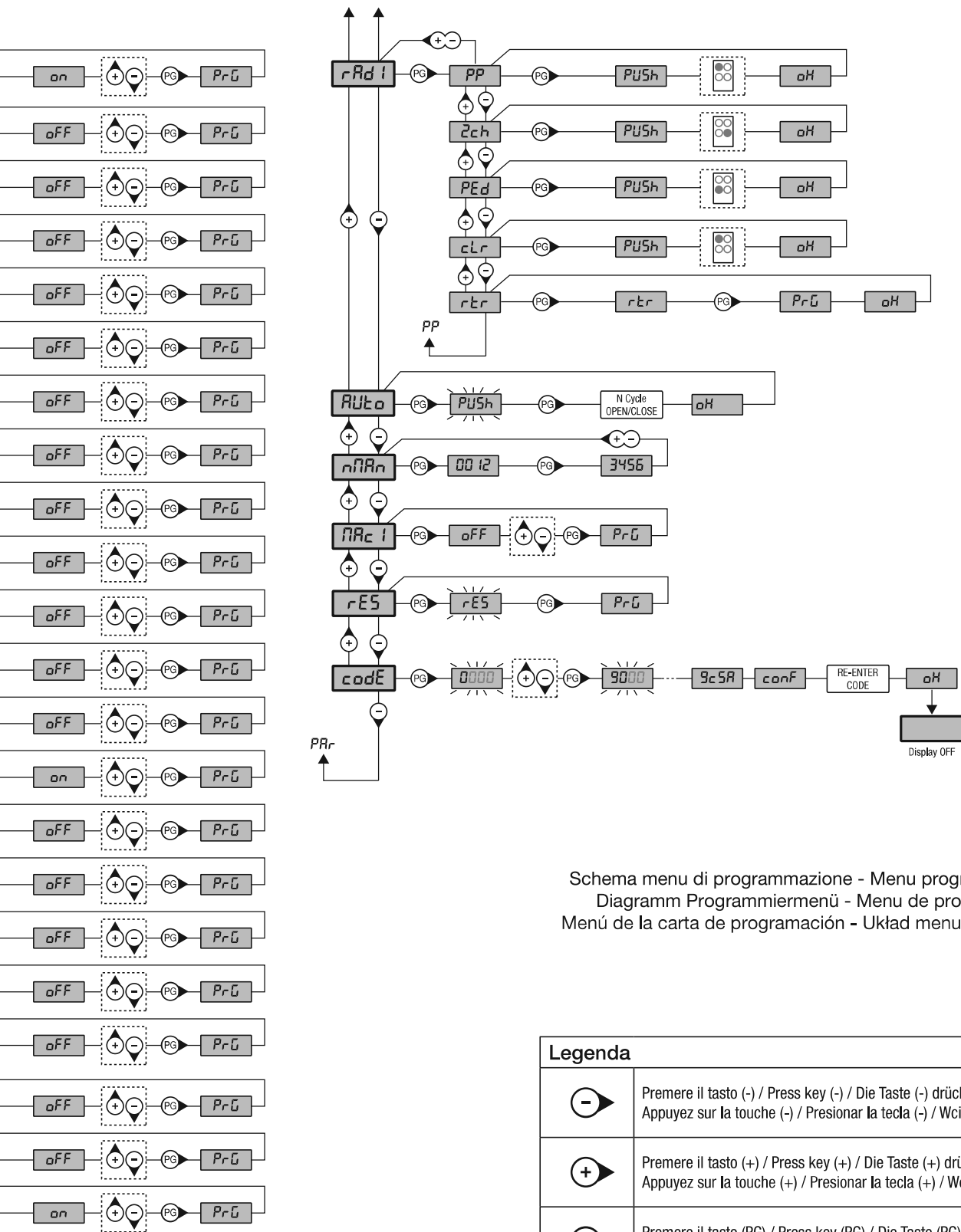


Fig. 2







Schema menu di programmazione - Menu programming layout
 Diagramm Programmiermenü - Menu de programmation
 Menü de la carta de programación - Układ menu programowania

Legenda	
	Premere il tasto (-) / Press key (-) / Die Taste (-) drücken Appuyez sur la touche (-) / Presionar la tecla (-) / Wcisnąć przycisk (-)
	Premere il tasto (+) / Press key (+) / Die Taste (+) drücken Appuyez sur la touche (+) / Presionar la tecla (+) / Wcisnąć przycisk (+)
	Premere il tasto (PG) / Press key (PG) / Die Taste (PG) drücken Appuyez sur la touche (PG) / Presionar la tecla (PG) / Wcisnąć przycisk (PG)
	Premere simultaneamente (+) e (-) / Press simultaneously keys (+) and (-) Gleichzeitig (+) und (-) drücken / Presser simultanément (+) et (-) Presionar simultáneamente (+) y (-) / Naciskać jednocześnie (+) i (-)
	Selezionare il valore desiderato con i pulsanti (+) e (-) Increase/decrease the value with keys (+) and (-) Mit den Tasten (+) und (-) kann man eingerichtete Werte ändern Régler la valeur désirée avec les touches (+) et (-) Establecer con las teclas (+) y (-) el valor deseado Nastawia przyciskami (+) i (-) obraną wartoś
	Selezionare il pulsante del trasmettitore da associare alla funzione Press the transmitter key, which is to be assigned to function Taste des Sendegeräts drücken, dem diese Funktion zugeteilt werden soll. Appuyer sur la touche du transmetteur qu'e l'on désire affecter à cette fonction. Presionar la tecla del transmisor que se desea asignar a esta función. Wcisnąć przycisk nadajnika, który zamierza się skojarzyć z tą funkcją.



The product shall not be used for purposes or in ways other than those for which the product is intended for and as described in this manual. Incorrect uses can damage the product and cause injuries and damages.

The company shall not be deemed responsible for the non-compliance with a good manufacture technique of gates as well as for any deformation, which might occur during use.

Keep this manual for further use.



This manual has been especially written to be use by qualified fitters.

Installation must be carried out by qualified personnel (professional installer, according to EN 12635), in compliance with Good Practice and current code.

Make sure that the structure of the gate is suitable for automation.

The installer must supply all information on the automatic, manual and emergency operation of the automatic system and supply the end user with instructions for use.



Packaging must be kept out of reach of children, as it can be hazardous. For disposal, packaging must be divided the various types of waste (e.g. carton board, polystyrene) in compliance with regulations in force.

Do not allow children to play with the fixed control devices of the product. Keep the remote controls out of reach of children.

This product is not to be used by persons (including children) with reduced physical, sensory or mental capacity, or who are unfamiliar with such equipment, unless under the supervision of or following training by persons responsible for their safety.

Apply all safety devices (photocells, safety edges, etc.) required to keep the area free of impact, crushing, dragging and shearing hazard. Bear in mind the standards and directives in force, Good Practice criteria, intended use, the installation environment, the operating logic of the system and forces generated by the automated system.

Installation must be carried out using safety devices and controls that meet standards EN 12978 and EN 12453.

Only use original accessories and spare parts, use of non-original spare parts will cause the warranty planned to cover the products to become null and void.

All the mechanical and electrical parts composing automation must meet the requirements of the standards in force and outlined by CE marking.



An omnipolar switch/section switch with remote contact opening equal to, or higher than 3mm must be provided on the power supply mains.

Make sure that before wiring an adequate differential switch and an overcurrent protection is provided.

Pursuant to safety regulations in force, some types of installation require that the gate connection be earthed.

During installation, maintenance and repair, cut off power supply before accessing to live parts.

Also disconnect buffer batteries, if any are connected.

The electrical installation and the operating logic must comply with the regulations in force.

The leads fed with different voltages must be physically separate, or they must be suitably insulated with additional insulation of at least 1 mm.

The leads must be secured with an additional fixture near the terminals.

During installation, maintenance and repair, interrupt the power supply before opening the lid to access the electrical parts

Check all the connections again before switching on the power.

The unused N.C. inputs must be bridged.



WASTE DISPOSAL

As indicated by the symbol shown, it is forbidden to dispose this product as normal urban waste as some parts might be harmful for environment and human health, if they are disposed of incorrectly. Therefore, the device should be disposed in special collection platforms or given back to the reseller if a new and similar device is purchased. An incorrect disposal of the device will result in fines applied to the user, as provided for by regulations in force.

Descriptions and figures in this manual are not binding. While leaving the essential characteristics of the product unchanged, the manufacturer reserves the right to modify the same under the technical, design or commercial point of view without necessarily update this manual.

TECHNICAL DATA

Mains power supply	230 Vac \pm 10% 50/60 Hz (120 Vac \pm 10%50/60 Hz for BRAINY 115)
Output, Motor	1/2 motor, 230 Vac \pm 10%(1/2 motors 120 Vac \pm 10%for BRAINY 115)
Motor maximum power	600W + 600W
Output, power supply of accessories	24VAC 1A max.
Protection level	IP54
Operating temperature	-20°C / +60°C
Radio receiver	433,92 MHz, incorporated and configurable
No. of codes storable in memory	64

BRAINY CONTROL UNIT

INPUT/OUTPUT FUNCTIONS

N° Terminals	Function	Description
1-2-3	Power supply	BRAINY: Input 230 Vac $\pm 10\%$ 50/60Hz (1-GND/2-Phase/3-Neutral) BRAINY 115: Input 120 Vac $\pm 10\%$ 50/60Hz (1-GND/2-Phase/3-Neutral)
4-5-6	Motor 1	Connection of motor 1: (4-start/5-Com/6-start)
7-8-9	Motor 2	Connection of motor 2: (7-start/8-Com/9-start)
10-11	Blinking light	Connection of blinking light 230Vac 40W max.
12-13	TLS (AUX3)	N.O. clean contact (230V/16A max) for courtesy light, timer, etc. The operating mode can be changed via parameter AUX3.
14-15	24 Vac	Accessories power supply output 24Vac/1A max.
16-17	Lock 12Vdc	Accessories power supply output 12Vac/10W for electric lock (16:0V, 17:+12V)
18-19	AUX1	Normally Open clean contact (24Vac/1A max). The operating mode can be changed via parameter AUX1.
20-21	EDGE	Input, sensitive edge contact Resistive edge: "DAS" Jumper closed Mechanical edge: "DAS" Jumper open When the edge is activated, the gate movement is stopped and reversed for about 3s.
22	SWO-M1	OPEN limit switch input motor 1 (N.C. contact.)
23	SWC-M1	CLOSE limit switch input motor 1 (N.C. contact)
24	SWO-M2	OPEN limit switch input motor 2 (N.C. contact)
25	SWC-M2	CLOSE limit switch input motor 2 (N.C. contact)
26-27	COM	Common for limit switch and all the control inputs.
28	Step-by-Step	Step-by-Step button input (N.O. contact)
29	PED	Pedestrian button input (N.O. contact)
30	OPEN	Input, OPEN push-button (Normally open contact). It is possible to connect a timer for opening in time slots.
31	CLOSE	CLOSE button input (N.O. contact)
32	PHOT	Active photocell input on opening and closing
33	PHOT CLOSE	Active photocell input only on closing
34	STOP	STOP button input (N.C. contact)
35-36	Antenna	Antenna connection for plug-in radio receiver board (35-screen/36-signal).
37-38	AUX2	Voltage-free Normally Open Contact (24Vac/1A max). The operating mode can be changed via parameter AUX2.
J3	Radio	Plug-in connector for radio receiver.
The control unit is equipped with an built-in radio module for the reception of variable code controls, with ARC (Advanced Rolling-Code) or fixed code, 433.92 MHz frequency.		

NOTES

The EDGE must be connected exclusively to the special inputs 20/21. Two types of EDGE may be used:

- If an edge with resistance 8K2 is used, close the Jumper "DAS".
- If a mechanical edge with N.C. contact is used, open the Jumper "DAS".
- If the edge is not used, bridge the terminals 20-21 and open the Jumper "DAS".

TO CHECK CONNECTIONS:

- 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. (4<>6 for motor M1, and 7<>9 for motor M2) and the relevant limit switch inputs (22<>23 for motor M1, and 24<>25 for motor M2).

ARC COMPATIBLE CONTROL UNIT

IMPORTANT, PLEASE READ CAREFULLY:

The radio receiver in this product is compatible with the new ARC (Advanced Rolling Code) transmitters which, thanks to 128-bit encryption ensure superior copy-security.

Storing new ARC transmitters is quite similar to that of normal rolling code transmitters with HCS coding, but be aware that:

- 1) ARC transmitters and Rolling Code HCS can not be stored in a single receiver.
- 2) The first transmitter memorized determines the type of transmitters to be used later. If the first transmitter memorized is ARC, you can not store Rolling code HCS transmitters, and vice versa.
- 3) Fixed code transmitters may only be used in conjunction with Rolling code HCS transmitters, bringing the logic CVAR OFF. They are, therefore, not usable in combination with the ARC transmitters. If the first rolling code transmitter stored is an ARC CVAR the logic is inoperative.
- 4) If you want to change the type of transmitters it is necessary to proceed with a receiver reset.

PROGRAMMING

The programming of the various functions of the control unit is carried out using the LCD display on the control unit and setting the desired values in the programming menus described below.

The parameters menu allows you to assign a numerical value to a function, in the same way as a regulating trimmer.

The logic menu allows you to activate or deactivate a function, in the same way as setting a dip-switch.

Other special functions follow the parameters and logic menus and may vary depending on the type of control unit or the software release.

TO ACCESS PROGRAMMING

- 1 – Press the button <PG>, the display goes to the first menu, Parameters “PAR”.
- 2 – With the <+> or <-> button, select the menu you want.
- 3- Press the button <PG>, the display shows the first function available on the menu.
- 4 - With the <+> or <-> button, select the function you want.
- 5 - Press the button <PG>, the display shows the value currently set for the function selected.
- 6 - With the <+> or <-> button, select the value you intend to assign to the function.
- 7 - Press the button <PG>, the display shows the signal “PRG” which indicates that programming has been completed.

NOTES

Pressing <-> with the display turned off means an impulse of P.P.

Simultaneously pressing <+> and <-> from inside a function menu allows you to return to the previous menu without making any changes.

Hold down the <+> key or the <-> key to accelerate the increase/decrease of the values.

After waiting 30s the control unit quits programming mode and switches off the display.

PARAMETERS, LOGIC AND SPECIAL FUNCTIONS

The tables below describe the individual functions available in the control unit.

PARAMETERS (PAR)			
MENU	FUNCTION	MIN-MAX- (Default)	MEMO
t _{cA}	Automatic closing time. Active only with logic “TCA”=ON. At the end of the set time the control unit orders a closing manoeuvre.	1-240-(40s)	
t _{n1}	Motor 1 work time. Regulates the maximum duration of the opening and closing manoeuvre of the motor 1. It must be set about 4 sec. longer than the actual travel time of the automatism.	5-180-(24s)	
t _{n2}	Motor 2 work time. Regulates the maximum duration of the opening and closing manoeuvre of the motor 2. It must be set about 4 sec. longer than the actual travel time of the automatism.	5-180-(24s)	
t _{PEd}	The operating time for partial opening (pedestrian) is adjusted on motor 1. With ENC: ON, the value is the opening percentage over the total stroke memorised during self-setting. With ENC: OFF, the value is the opening percentage over the time preset in TM1 parameter.	1-99-(50%)	
P _{n01}	The torque applied to motor 1 in the OPENING* phase is adjusted.	1-99-(40%)	
P _{n1c}	The torque applied to motor 1 in the CLOSING* phase is adjusted.	1-99-(40%)	
P _{n02}	The torque applied to motor 2 in the OPENING* phase is adjusted.	1-99-(40%)	
P _{n2c}	The torque applied to motor 2 in the CLOSING* phase is adjusted.	1-99-(40%)	
t _{d_{n0}}	Mot.2 opening delay time. Regulates the delay time of motor 2 on opening with respect to motor 1	0-15-(2s)	
t _{d_{n1c}}	Mot.1 closing delay time Regulates the delay time of motor 1 on closing with respect to motor 2	0-60-(3s)	
t _{LS}	TLS contact activation time (only if one of the AUX parameters is set to 2). With each operation, the contact (AUX1/AUX2/AUX3) closes for the set time.	1-240-(60s)	
t _{L0c}	Electric lock activation time. If the electric lock is not used, set the parameter at 0.	0-5-(3s)	
t _{S01}	Motor 1 slowing time on OPENING Regulates the duration of the slowing phase of motor 1 on opening. Value is calculated as a percentage on the space covered during the complete operation. 0 = slowing time disabled.	0-99-(0%)	
t _{S1c}	Motor 2 slowing time on CLOSING Regulates the duration of the slowing phase of motor 1 on closing. Value is calculated as a percentage on the space covered during the complete operation. 0 = slowing time disabled.	0-99-(0%)	
t _{S02}	Motor 2 slowing time on OPENING Regulates the duration of the slowing phase of motor 2 on opening. Value is calculated as a percentage on the space covered during the complete operation. 0 = slowing time disabled.	0-99-(0%)	

tSc2	Motor 2 slowing time on CLOSING. Regulates the duration of the slowing phase of motor 2 on closing. Value is calculated as a percentage on the space covered during the complete operation. 0 = slowing time disabled.	0-99-(0%)	
PSo1	The torque applied to motor 1 during braking in the opening phase is adjusted *	1-99-(70%)	
PSc1	The torque applied to motor 1 during braking in the closing phase is adjusted *	1-99-(70%)	
PSo2	The torque applied to motor 2 during braking in the opening phase is adjusted *	1-99-(70%)	
PSc2	The torque applied to motor 2 during braking in the closing phase is adjusted *	1-99-(70%)	
SEAU	The intervention threshold of the anti-crashing device (Encoder) during the phase at normal speed is adjusted.* 0:Off - 1:minimum sensitivity - 99: maximum sensitivity	0-99-(0%)	
SEAr	The intervention threshold of the anti-crashing device (Encoder) during braking is adjusted *. 0:Off - 1:minimum sensitivity - 99: maximum sensitivity	0-99-(0%)	
tInc	This parameter is enabled only for motors equipped with Encoder. The encoder inhibition is regulated near the opening and closing mechanical stoppers. 1: minimum distance – 250: maximum distance	1-250-(250)	
BLcc	Adjusts the stoppage time after closure limit switch interception. Recommended for motors for overhead doors equipped with limit switches. Value expressed in tenths of a second.	0-60-(60)	
BLco	Adjusts the stoppage time after opening limit switch interception. Recommended for motors for overhead doors equipped with limit switches. Value expressed in tenths of a second.	0-50-(0)	
t2ch	Sets the switching time of the second radio channel. 0:bistable output, each time the second radio channel is activated the output changes state 1 to 250:switching time in seconds	0-250-(1)	
ALrN	Activates the alarm output when at least one of the following inputs (STOP - PHOT - PHOTC - BAR - SWO+SWC) remains active for the set time. One of the AUX parameters must be set to 7 (Alarm output) Value in seconds.	10-240 (60)	
AUX1	Sets the operating mode of the AUX1 output (N.O. contact) 0: SCA output (gate open indicator light). The light is off when the door is closed, flashes when the door is moving, is on when the door is open. 1: 2CH radio output. The output is controlled by the second radio channel of the built-in receiver (see RADIO menu) 2: courtesy light output (activation time is set by parameter TLS) 3: Zone light output. The contact closes for the duration of the manoeuvre and for the duration of the TCA, it only reopens when the gate is closed. 4: accessory power supply output (for .photocell verification - coast, in combination with logics TST1-TST2-TST3) 5: flashing output 6: gate open alarm output (gate open for twice the set TCA time) 7: NC input alarm output or card error (NC=alarm not active, NO=alarm active)	0-7-(0)	
AUX2	Same settings as parameter AUX1 but referring to output AUX2 (N.O contact)	0-7-(1)	
AUX3	Same settings as parameter AUX1 but referring to TLS output (N.O. contact)	0-7-(2)	
** WARNING: AN INCORRECT SETTING OF THESE PARAMETERS MAY RESULT IN A DANGER. COMPLY WITH REGULATIONS IN FORCE! For hydraulic motors, set the value to maximum (99). Use by-pass valves to adjust the applied torque.			

LOGIC (Lcū)			
MENU	FUNCTION	ON-OFF-(Default)	MEMO
ŁcA	Enables or disables automatic closing On: automatic closing enabled Off: automatic closing disabled	(ON)	
İbL	Enables or disables condominium function. Off: condominium function disabled. On: condominium function enabled. The step-by-step impulse or transmitter impulse has no effect during the opening phase.	(OFF)	
İbcA	During the TCA phase, the PP controls are enabled or disabled. On: PP controls are disabled. Off: PP controls are enabled.	(OFF)	
ScL	Enables or disables rapid closing On: rapid closing enabled. With the gate open or in the opening phase the intervention of the photocell causes automatic closing after 3 s. Active only with TCA:ON. Off: rapid closing disabled.	(OFF)	
PP	Selects the operating mode of the "Step by step button" and of the transmitter. On: Operation: OPEN > CLOSE > OPEN > Off: Operation: OPEN > STOP > CLOSE > STOP >	(OFF)	
PrE	Enables or disables pre-blinking. On: Pre-blinking enabled. Blinking is activated 3s before the motor starts. Off: Pre-blinking disabled.	(OFF)	
hAn	Enables or disables the inversion stroke function On: Function enabled. Before each opening manoeuvre the control unit orders a manoeuvre of 2s in the opposite direction to facilitate the release of the electric lock. Off: Function disabled.	(OFF)	
bLc	Enables or disables the block maintaining function. Recommended for hydraulic motors to keep the leaf resting against the mechanical stop block. On: Block maintaining function enabled. Every 2 hours the control unit makes a closing manoeuvre with a duration of about 3s to keep the leaf in contact. Off: Block maintaining function disabled.	(OFF)	
SPn	Enables or disables starting torque function. On: Starting torque enabled. At the start of each manoeuvre for 2s the motor operates at maximum torque. Off: Starting torque disabled.	(ON)	
ŁtcA	Selects the operating mode of the blinking light during the time TCA On: Blinking light on during TCA Off: Blinking light off during TCA	(OFF)	
hEr	Enables or disables Man present function. On: Man Present operation. The OPEN/CLOSE buttons must be held down during the whole manoeuvre. Off: Automatic operation.	(OFF)	
İNot	Select the 1/2 motors operating mode: On: only one motor (motor 1) active. Function to be used in the following cases: - for single motor, to connect M1:4-5-6. - for two synchronized motors (for instance overhead door), to connect M1:4-5-6 and M2:7-8-9. You need to regulate the parameters related to the motor 1, the limit switch entries M2 are disarmed (not activate). Off: Both motors operating.	(OFF)	
not	The calculation of residual operating time is activated or deactivated in the event of partial operations: On: Calculation of deactivated time. In case of partial operations, the operating time is reset. The following operation restarts for the entire time preset by parameter TM1/TM2. Off: Calculation of activated time. In case of partial operations, the operating time is stored in memory and then subtracted from the TM1/TM2 parameter value in the following operation.	(ON)	
Enc	The Encoder is enabled or disabled. See section " TYPES OF INSTALLATIONS" On: Encoder enabled – The anti-crash sensor is activated. Off: Encoder disabled – The anti-crash sensor is deactivated.	(OFF)	
cUAr	Enables or disables the programmable code transmitters. IMPORTANT: The transmitters with programmable code can only be used in conjunction with the Rolling Code HCS transmitters. On: Radio receiver enabled only for transmitters Rolling Code (ARC or HCS, the first transmitter sets the operating mode). Off: Receiver enabled for transmitters Rolling Code HCS and programmable (self-learning and dip/switch).	(ON)	

nLoc	Selects the type of electric lock used. On: Magnetic electric lock, normally fed at 12Vdc. Before each opening manoeuvre the power supply is interrupted for the time set by the parameter TLOC. Off: Electric lock with latch, normally not fed. Before each opening manoeuvre power is fed at 12Vdc for the time set by the parameter TLOC.	(OFF)	
tRH	The check for integrity of TRIAC is enabled or disabled. On: Activated check: if TRAC is faulty, the motor does not start. Off: the TRIAC is not checked.	(OFF)	
tSt1	The test of photocells to PHOT input is enabled or disabled. On: Test is enabled. If the test is negative, no operation is performed. See Fig.2 "PHOTO TEST". Off: Test is disabled.	(OFF)	
tSt2	The test of photocells to PHOTC input is enabled or disabled. On: Test is enabled. If the test is negative, no operation is performed. See Fig.2 "PHOTO TEST". Off: Test is disabled.	(OFF)	
tSt3	Enable or disable the BAR input TEST. The activation of the TEST function is only possible with the use of the articles SC.RF and RF / RF.SUN, consult the specific instructions. On: Test is enabled. If the test is negative, no operation is performed. See Fig.2 "BAR- TEST". Off: Test is disabled.	(OFF)	
bb	The thrust function in the closing phase is activated or deactivated by this logic. On: the operation in the closing phase is carried out at normal speed during the last second (braking is disabled). In this way, a better hooking of the electric lock is performed. Off: disabled function.	(OFF)	
horN	The automatic switching is activated/deactivated in Service Man mode. On: If the sensitive edge remains activated for at least 10 seconds with open or closed gate, the control unit automatically switches to Service man mode. Off: Disabled function.	(OFF)	
rEN	The remote storage of the radio transmitter codes is enabled or disabled (see par. REMOTE LEARNING). On: Enabled remote storage Off: Disabled remote storage.	(ON)	

RADIO (rRd)

MENU	FUNZIONE
pp	By selecting this function, the receiver is waiting for (Push) a transmitter code to be assigned to the step-by-step function. Press the transmitter key, which is to be assigned to this function. If the code is valid, it will be stored in memory and OK will be displayed. If the code is not valid, the Err message will be displayed.
2ch	By selecting this function, the receiver is waiting for (Push) a transmitter code to be assigned to the second radio channel. Press the transmitter key, which is to be assigned to this function. If the code is valid, it will be stored in memory and OK will be displayed. If the code is not valid, the Err message will be displayed.
PEd	When this function is selected, the receiver awaits (Push) a transmitter code to be assigned to the pedestrian opening function (see TPED parameter). Press the transmitter key, which is to be assigned to this function. If the code is valid, it will be stored in memory and OK will be displayed. If the code is not valid, the Err message will be displayed.
clr	By selecting this function, the receiver is waiting for (Push) a transmitter code to be erased from memory. If the code is valid, it will be stored in memory and OK will be displayed. If the code is not valid, the Err message will be displayed.
rEr	The memory of the receiver is entirely erased. Confirmation for the operation is asked. By selecting this function, the receiver waits for (Push) the GPM key to be pressed again to confirm the operation. At end of erasing, the OK message is displayed

Note: The transmitters are stored in an EPROM memory (Fig.1 -U11), which can be removed and repositioned in a new control unit, it required.

AUTOSET (AUto)

CAUTION: Use only with motors equipped with encoders. The control unit performs a series of operations for the learning of the door leaf stroke. Initially, both leaves are moved to closed position, then, after one, or both leaves, has carried out some opening and closing operations with different speeds, the working OK is displayed on the control unit. If this operation is not successful, the message ERR is displayed. After checking both cables and the presence of obstacles again, repeat the operation.

CYCLES NUMBER (n1Rn)

Displays the number of complete cycles (open+close) carried out by the automation.

When the <PG> button is pressed for the first time, it displays the first 4 figures, the second time it shows the last 4. Example <PG> 00 12 >>> <PG> 3456: made 123.456 cycles.

MAINTENANCE CYCLES (nRc i)

This function enables to activate the maintenance request notice after a number of manoeuvres determined by the installer.

To activate and select the number of manoeuvres, proceed as follows:

Press button <PG>, the display will show OFF, which indicated that the function is disabled (default value).

With the buttons <+> and <-> select one of the numeric values proposed (from OFF to 100). The values are intended as hundreds of cycles of manoeuvres (for example: the value 50 indicates 5000 manoeuvres).

Press the OK button to activate the function. The display will show the message *Prœ*.

The maintenance request is indicated to the user by keeping the indicator lamp lit up for other 10 sec after the conclusion of the opening or closing operation.

RESET (rE5)

RESET of the control unit. ATTENTION!: Returns the control unit to the default values.

Pressing the <PG> button for the first time causes blinking of the letters rE5, pressing the <PG> button again resets the control unit. Note: The transmitters are not erased from the receiver nor is the access password.

All the logics and all the parameters are brought back to default values, it is therefore necessary to repeat the autose procedure.

PROTECTION CODE (codE)

It allows to type in an access protection code to the programming of the control unit.

A four-character alphanumeric code can be typed in by using the numbers from 0 to 9 and the letters A-B-C-D-E-F.

The default value is 0000 (four zeros) and shows the absence of a protection code.

While typing in the code, this operation can be cancelled at any moment by pressing keys + and - simultaneously. Once the password is typed in, it is possible to act on the control unit by entering and exiting the programming mode for around 10 minutes in order to allow adjustments and tests on functions.

By replacing the 0000 code with any other code, the protection of the control unit is enabled, thus preventing the access to any other menu. If a protection code is to be typed in, proceed as follows:

- select the Code menu and press OK.
- the code 0000 is shown, also in the case a protection code has been previously typed in.
- the value of the flashing character can be changed with keys + and -.
- press OK to confirm the flashing character, then confirm the following one.
- after typing in the 4 characters, a confirmation message "CONF" appears.
- after a few seconds, the code 0000 appears again
- the previously stored protection code must be reconfirmed in order to avoid any accidental typing in.

If the code corresponds to the previous one, a confirmation message "oH" appears.

The control unit automatically exits the programming phase. To gain access to the Menus again, the stored protection code must be typed in.

IMPORTANT: TAKE NOTE of the protection code and KEEP IT IN A SAFE PLACE for future maintenance operations.

To remove a code from a protected control unit it is necessary to enter into programming with the password and bring the code back to the 0000 default value.

IF YOU LOOSE THE CODE, PLEASE CONTACT THE AUTHORISED SERVICE CENTER FOR THE TOTAL RESET OF THE CONTROL UNIT.

BRAKING

With the ENC=OFF logics, braking is given by the TSM1/TSM2 parameter value referred to the TM1/TM2 operating time. For example, if the operation of motor 1 lasts 20 seconds and TM1=24s and TSM1=8 are preset, 4 s braking will result (20-(24-8)).

With ENC=ON logics, braking is calculated as a percentage on the space covered during the complete operation. If, for example, TSM1=20, 20% of the operation will be slow down.

FUSES

F1: F6.3A (230VAC) / F10A (120VAC) – Motor protection

F2: T315mA (230VAC) – T500mA (120VAC) – Protection for primary transformer

TRANSMITTER REMOTE LEARNING

If the transmitter code is already stored in the receiver, the remote radio learning can be carried out (without accessing the control unit).

IMPORTANT: The procedure should be carried out with gate in the opening phase, during the TCA dwell time.

Proceed as follows:

- 1 Press the hidden key of the transmitter, the code of which has already been stored in memory.
- 2 Within 5 seconds, press the already memorised transmitter key corresponding to the channel to be matched to the new transmitter. The flashing light switches on.
- 3 Within 10 seconds, press the hidden key of the new transmitter.
- 4 Within 5 seconds, press the key of the new transmitter to be matched to the channel selected at item 2. The flashing light switches off.
- 5 The receiver stores the new transmitter code and exits from the programming mode immediately.

TYPES OF INSTALLATION

AUTOMATIC SYSTEM WITH ENCODER

Start a self-test operation, as indicated in the AUTO Menu.

At completion of the self-learning, the value of all torques and the TDMO/TDMC value are preset by the control unit.

If an obstacle is present, the Encoder acts as anti-crash sensor. Its sensitivity is adjusted by SEAV and SEAR parameters.

AUTOMATIC SYSTEM WITH ELECTROMECHANIC LIMIT SWITCHES

In this operating mode, the NOT=ON logics and the ENC=OFF logics must be preset.

All parameters must be preset manually. In particular, values of TM1/TM2 must be some seconds higher than the actual operating time.

AUTOMATIC SYSTEM WITH ELECTROMECHANIC LIMIT SWITCHES AND WITHOUT ENCODER

In this operating mode, the NOT=OFF logics and the ENC=OFF logics must be preset.

All parameters must be preset manually. In particular, values of TM1/TM2 must be some seconds higher than the actual operating time.

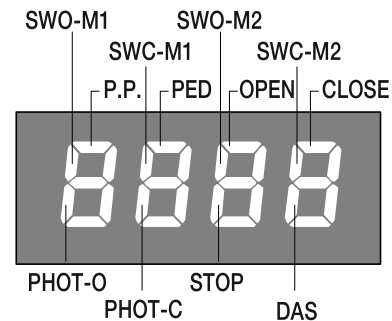
ERROR MESSAGES

Some messages that are displayed in the event of malfunctions are shown hereunder:

<i>Enc 1</i>	Error, motor 1 encoder	Check the connection to motor 1 encoder
<i>Enc 2</i>	Error, motor 2 encoder	Check the connection to motor 2 encoder
<i>ANP 1</i>	Error, motor 1 obstacle	Check the presence of obstacles on the motor 1 leaf stroke
<i>ANP 2</i>	Error, motor 2 obstacle	Check the presence of obstacles on the motor 2 leaf stroke
<i>Err 1</i>	Error, check motor 1 circuit	Check connections to motor 1
<i>Err 2</i>	Error, check motor 2 circuit	Check connections to motor 2
<i>Err 3</i>	Error, check actiation relay	Ask for technical assistance
<i>Err 4</i>	Error, check PHOT photocell	Check connections, alignment of PHOT photocell or obstacle present.
<i>Err 5</i>	Error, check PHOTC photocell	Check connections, alignment of PHOTC photocell or obstacle present.
<i>Err 6</i>	Error, activated sensitive edge (during self-set)	During self-setting, the safety edge was activated.
<i>Err 7</i>	Error, activated stop (during self-test)	During self-setting, the STOP input was activated.
<i>Err 8</i>	Error, activated input (during self-test)	During self-setting, a Start/Pedestrian/Open/Close input was activated.

DIAGNOSTICS

In the event of malfunctions, by pressing key + or - the status of all inputs (limit switches, control and safety) can be displayed. One segment of the display is linked to each input. In the event of failure it switches on according to the following scheme.



EU Certificato di Conformità (DOC)

Nome del produttore: Automatismi Benincà SpA
Indirizzo: Via Capitello, 45
Codice postale e Città: 36066 - Sandrigo (VI) - Italia
Telefono: +39 0444 751030
E-mail: sales@beninca.it

Dichiara che il documento è rilasciato sotto la propria responsabilità e appartiene al seguente prodotto:

Modello/Tipo: BRAINY
Tipo di prodotto: Centrale di comando 230Vac



Il prodotto sopraindicato risulta conforme alle disposizioni imposte dalle seguenti direttive:

Direttiva 2014/53/EU
Direttiva 2011/65/EU

Sono state applicate le norme armonizzate e le specifiche tecniche descritte di seguito:

ETSI EN 300 220-1 V3.1.1
ETSI EN 300 220-2 V3.1.1
ETSI EN 301 489-1 V2.1.1
ETSI EN 301 489-3 V2.1.1
EN 61000-6-2:2005, EN 61000-6-3:2007 + A1:2011
EN 60335-1:2012 + A11:2014; EN 60335-2-103:2015
50581:2012

Organismo notificato (se applicabile):

Ulteriori informazioni:

Firmato per conto di:
Sandrigo, 25/10/2018

Luigi Benincà, Responsabile legale

EU Declaration of Conformity (DOC)

Manufacturer's name: Automatismi Benincà SpA
Postal Address: Via Capitello, 45
Post code and City: 36066 - Sandrigo (VI) - Italia
Telephone number: +39 0444 751030
E-mail address: sales@beninca.it

Declare that the DOC is issued under our sole responsibility and belongs to the following product:

Model/Product: BRAINY
Type: Control box 230Vac



The object of the declaration described above is in conformity with the relevant Union harmonization legislation:

Directive 2014/53/EU
Directive 2011/65/EU

The following harmonized standards and technical specifications have been applied:

ETSI EN 300 220-1 V3.1.1
ETSI EN 300 220-2 V3.1.1
ETSI EN 301 489-1 V2.1.1
ETSI EN 301 489-3 V2.1.1
EN 61000-6-2:2005, EN 61000-6-3:2007 + A1:2011
EN 60335-1:2012 + A11:2014; EN 60335-2-103:2015
50581:2012

Notified body (where applicable):

Additional information:

Signed for and on behalf of:
Sandrigo, 25/10/2018

Luigi Benincà, Responsabile legale

EG-Konformitätserklärung (DOC)

Name des Herstellers: Automatismi Benincà SpA
Adresse: Via Capitello, 45
Codice postale e Città: 36066 - Sandrigo (VI) - Italia
Telefono: +39 0444 751030
E-mail: sales@beninca.it

Erklärt, dass das Dokument unter alleiniger Verantwortung herausgegeben wurde und zu dem folgenden Produkt ge-hört:MM

Modell/Produkt: BRAINY
Type: Steuerung 230Vac



Das oben genannte Produkt stimmt mit den Vorschriften der folgenden Richtlinien überein:

Richtlinie 2014/53/EU
Richtlinie 2011/65/EU

Die harmonisierten Normen und technischen Spezifikationen, die unten beschrieben werden, wurden angewandt:

ETSI EN 300 220-1 V3.1.1
ETSI EN 300 220-2 V3.1.1
ETSI EN 301 489-1 V2.1.1
ETSI EN 301 489-3 V2.1.1
EN 61000-6-2:2005, EN 61000-6-3:2007 + A1:2011
EN 60335-1:2012 + A11:2014; EN 60335-2-103:2015
50581:2012

Benannte Stelle (falls zutreffend):

Weitere Informationen:

Unterszeichnet für und im Auftrag von:
Sandrigo, 25/10/2018

Luigi Benincà, Responsabile legale

Déclaration CE de conformité (DOC)

Nom du producteur : Automatismi Benincà SpA
Adresse: Via Capitello, 45
Ville et code postal: 36066 - Sandrigo (VI) - Italia
Téléphone: +39 0444 751030
E-mail: sales@beninca.it

Nous déclarons que le document est délivré sous notre propre responsabilité et qu'il appartient au produit suivant:

Modèle/Type: BRAINY
Type de produit: Centrale de commande 230Vac



Le produit mentionné ci-dessus est conforme aux dispositions établies par les directives suivantes:

Directive 2014/53/EU
Directive 2011/65/EU

Les normes harmonisées et les spécifications techniques décrites ci-dessous ont été appliquées:

ETSI EN 300 220-1 V3.1.1
ETSI EN 300 220-2 V3.1.1
ETSI EN 301 489-1 V2.1.1
ETSI EN 301 489-3 V2.1.1
EN 61000-6-2:2005, EN 61000-6-3:2007 + A1:2011
EN 60335-1:2012 + A11:2014; EN 60335-2-103:2015
50581:2012

Organisme notifié (le cas échéant):

Plus d'informations:

Signé pour et au nom de:
Sandrigo, 25/10/2018

Luigi Benincà, Responsabile legale

Declaración CE de conformidad (DOC)

Nombre del productor: Automatismi Benincà SpA
Dirección: Via Capitello, 45
Ciudad y código postal: 36066 - Sandrigo (VI) - Italia
Teléfono: +39 0444 751030
E-mail: sales@beninca.it

Declara que el documento ha sido emitido bajo la propia responsabilidad y pertenece al siguiente producto:

Modelo/Tipo: BRAINY

Tipo de producto: Central de mando 230Vac

El producto indicado arriba cumple con las disposiciones establecidas por las siguientes directivas:

Directiva 2014/53/EU
Directiva 2011/65/EU

Han sido aplicadas las normas armonizadas y las especificaciones técnicas que se describen a continuación:

ETSI EN 300 220-1 V3.1.1
ETSI EN 300 220-2 V3.1.1
ETSI EN 301 489-1 V2.1.1
ETSI EN 301 489-3 V2.1.1
EN 61000-6-2:2005, EN 61000-6-3:2007 + A1:2011
EN 60335-1:2012 + A11:2014; EN 60335-2-103:2015
50581:2012

Organismo notificado (en su caso):

Más información:

Firmado en nombre de:
Sandrigo, 25/10/2018

Luigi Benincà, Responsabile legale



Deklaracja zgodności CE (DOC)

Nazwa producenta: Automatismi Benincà SpA
Adres: Via Capitello, 45
Kod pocztowy i miasto: 36066 - Sandrigo (VI) - Italia
Teléfono: +39 0444 751030
Adres e-mail: sales@beninca.it

Oświadczam, że dokument został wydany na własną odpowiedzialność i dotyczy produktu:

Model/Typ: BRAINY

Rodzaj produktu: Centralka sterowania 230Vac

Wyżej wskazany produkt spełnia wymagania dyrektyw:

Dyrektywy 2014/53/EU
Dyrektywy 2011/65/EU

Uwzględniono normy zharmonizowane i zastosowano niżej wskazane specyfikacje techniczne:

ETSI EN 300 220-1 V3.1.1
ETSI EN 300 220-2 V3.1.1
ETSI EN 301 489-1 V2.1.1
ETSI EN 301 489-3 V2.1.1
EN 61000-6-2:2005, EN 61000-6-3:2007 + A1:2011
EN 60335-1:2012 + A11:2014; EN 60335-2-103:2015
50581:2012

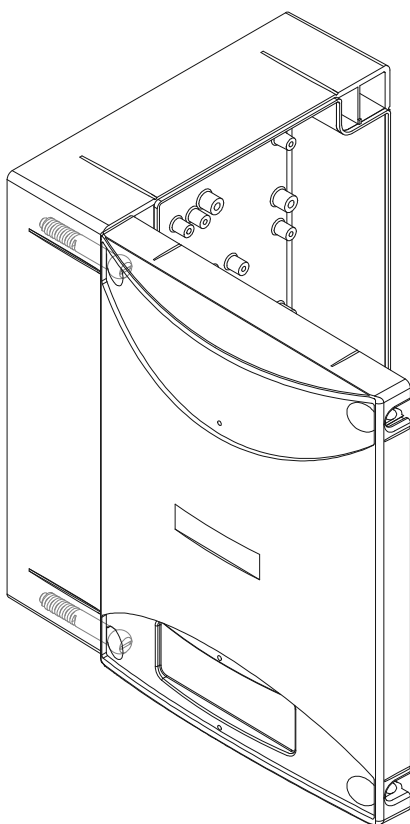
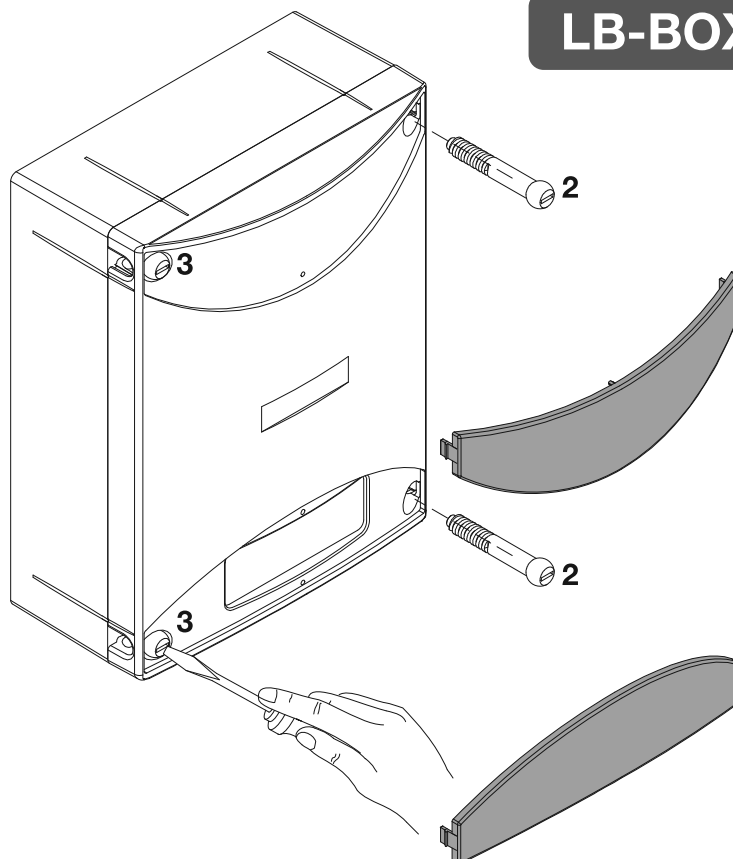
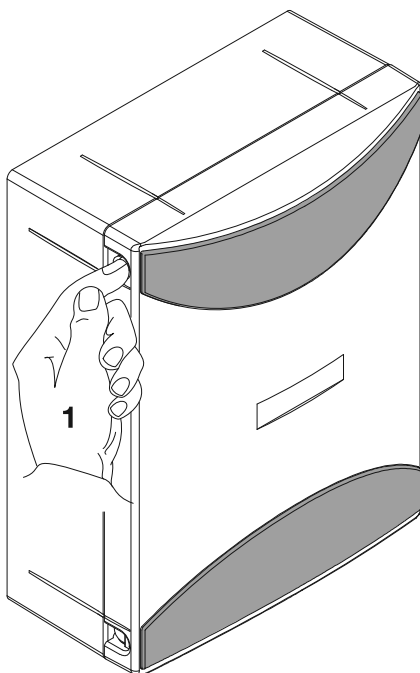
Jednostka notyfikowana (stosownych przypadkach):

Dodatkowe informacje:

Podpisano w imieniu:
Sandrigo, 25/10/2018

Luigi Benincà, Responsabile legale





1. Premere le alette sui fianchi per sganciare le due maschere copriviti.
 2. Rimuovere le due viti sul lato di apertura desiderato.
 3. Allentare le viti con funzione di cerniera senza rimuoverle, in modo da consentire l'apertura del coperchio.

1. Press the tabs on the sides to release 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 allow opening 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. Desserrer les deux vis faisant fonction de charnière sans les enlever, de manière à permettre l'ouverture du couvercle.

1. Presionar las aletas en los lados para desenganchar las dos tapas cubretornillos.
 2. Extraer los dos tornillos del lado de apertura deseado.
 3. Afojar los dos tornillos con función de bisagra sin extraerlos, a fin de poder abrir la tapa.

1. Nacisnąć boczne kłapki w celu odhaczenia dwóch masek nakrywających śruby.
 2. Wyciągnąć dwie śruby po wybranej do otwierania stronie.
 3. Poluzować dwie śruby blokujące bez wyciągania ich, w sposób umożliwiający otwarcie nakrywkki.

BENINCA