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LUX2+

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MODULO OPZIONALE PER LA
GESTIONE DI LUCI, SEMAFORO O
ELETTROFRENO

GB

OPTIONAL MODULE FOR THE
MANAGEMENT OF LIGHTS,
SEMAPHORE, OR ELECTRICAL
BRAKE

F

MODULE OPTION POUR
LA GESTION DE LUMIÈRES,
SÉMAPHORE OU ÉLECTRO-FREIN

E

MÓDULO OPCIONAL PARA LA
GESTIÓN DE LUCES, SEMÁFORO Y
ELECTROFRENO

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MÓDULO OPCIONAL PARA A
GESTÃO DE LUZES, SEMÁFORO
OU ELECTROTRAVÃO

D

OPTIONALES MODUL FÜR DIE
STEUERUNG VON BELEUCHTUNG,
AMPEL ODER ELEKTROBREMSE

NL

OPTIONELE MODULE VOOR HET
BEHEER VAN LICHTEN, STOPLICHT
EN ELEKTROREM

Fig. 1

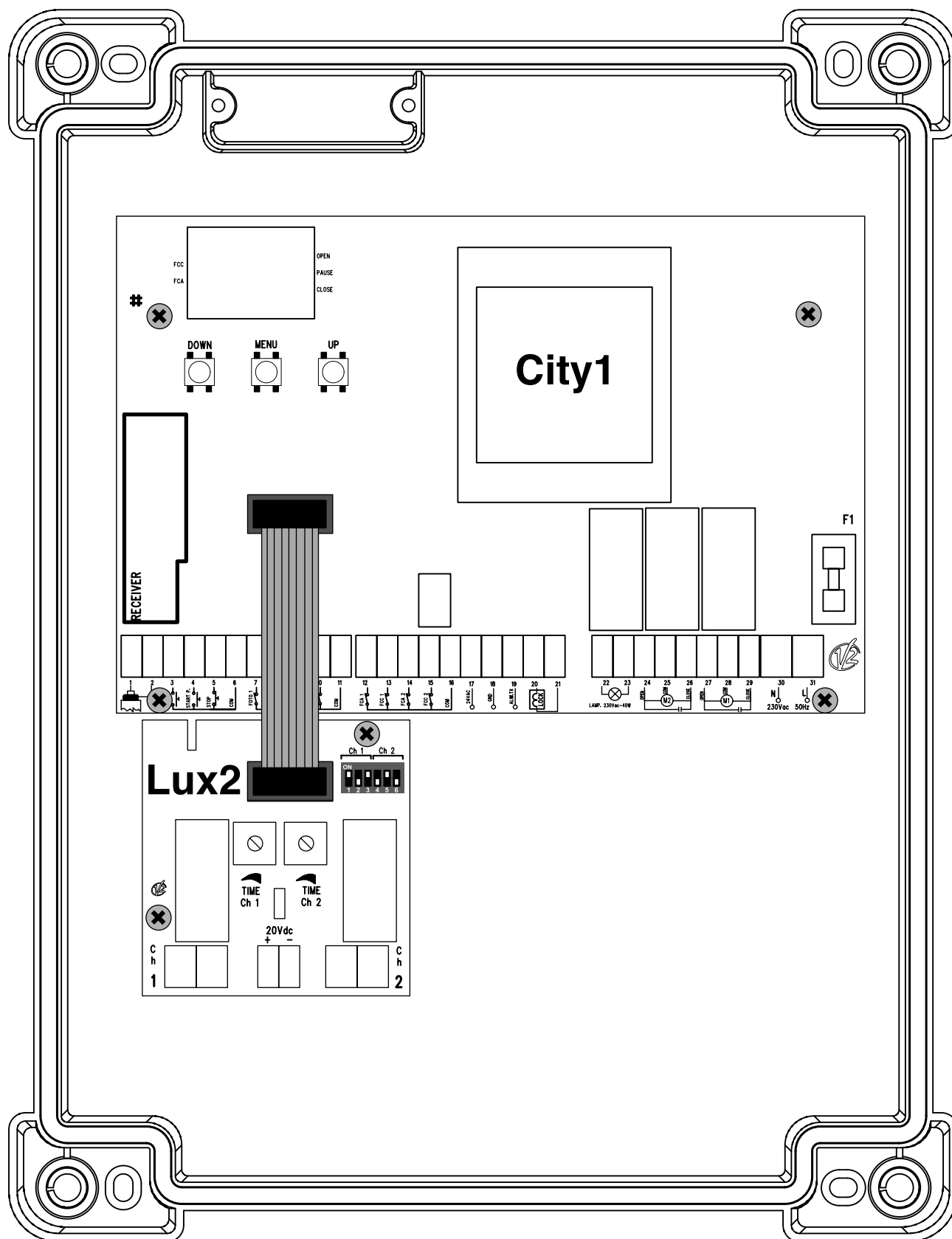


Fig. 2

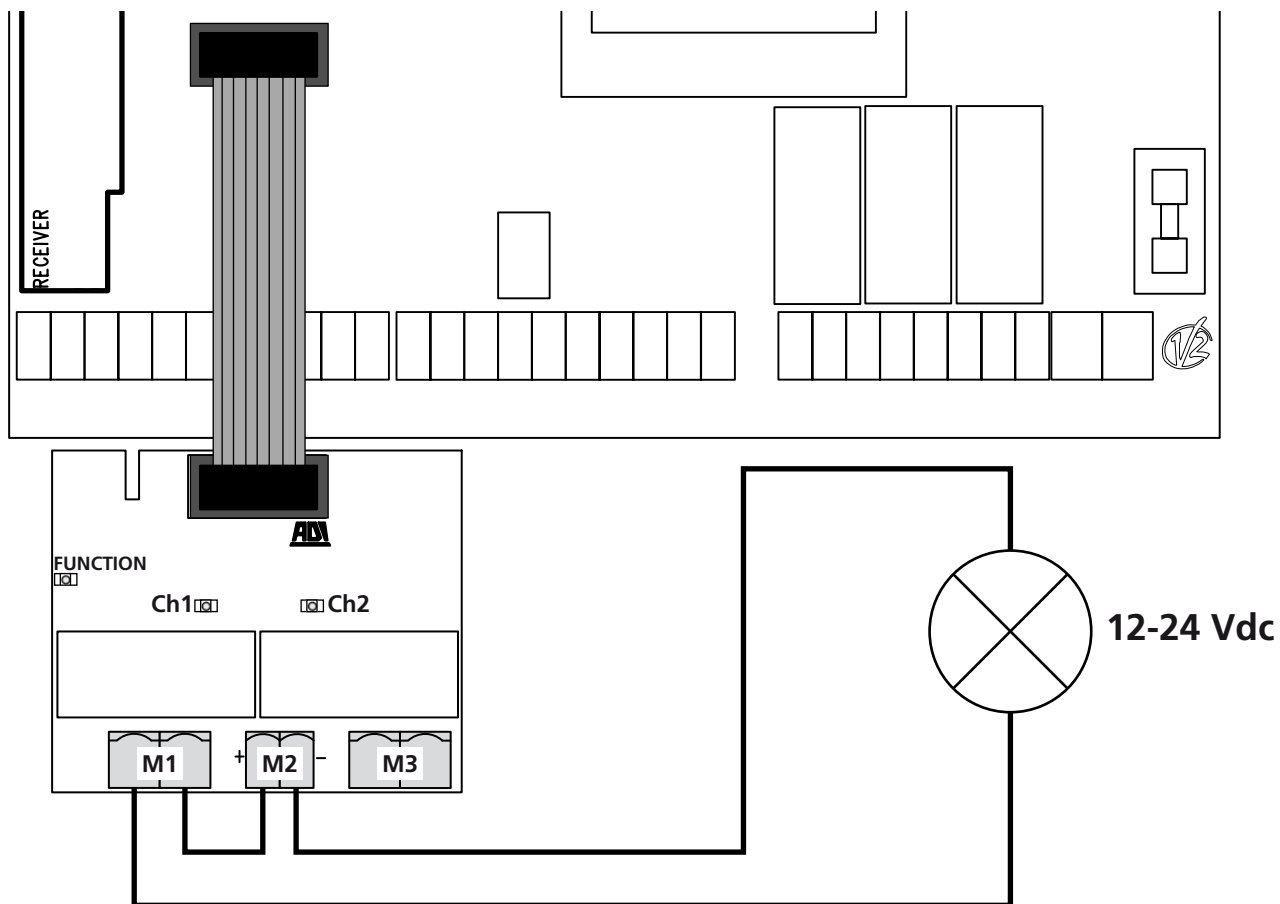
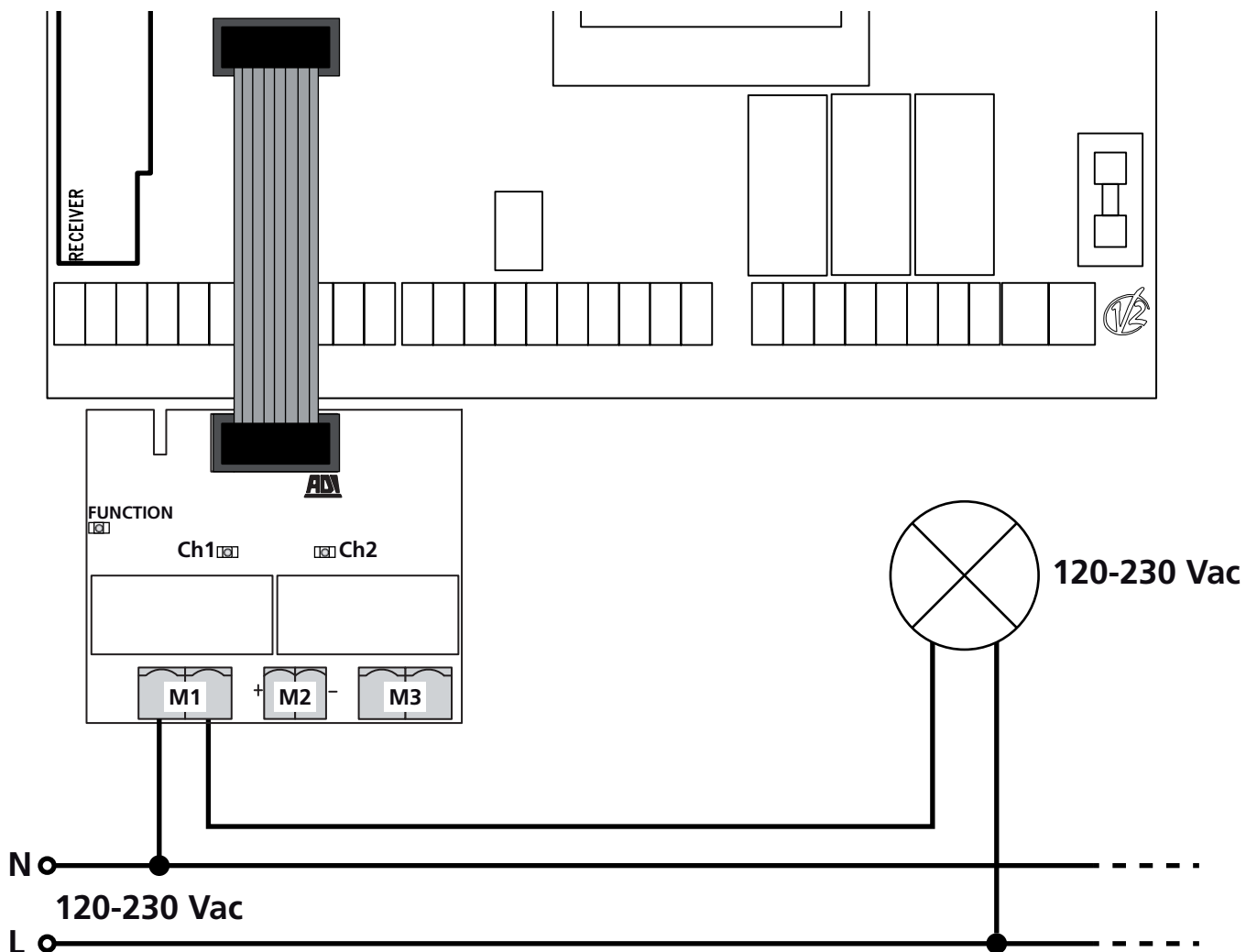


Fig. 3



IMPORTANT REMARKS

For any installation problem please contact our Customer Service at the number +39-0172.812411 operating Monday to Friday from 8:30 to 12:30 and from 14:00 to 18:00.

V2 has the right to modify the product without previous notice; it also declines any responsibility to damage or injury to people or things caused by improper use or wrong installation.

- This instruction manual is only for qualified technicians, who specialize in installations and automations.
- The contents of this instruction manual do not concern the end user.
- Every programming and/or every maintenance service should be done only by qualified technicians.
- The installer must provide for a device (es. magnetothermal switch) ensuring the omnipolar sectioning of the equipment from the power supply. The standards require a separation of the contacts of at least 3 mm in each pole (EN 60335-1).
- After making connections on the terminal board, use one hose clamp to fix dangerous voltage wires near the terminal board and another hose clamp to fix safety low voltage wires used for accessories connection; this way, in case of accidental detachment of a conducting wire, dangerous voltage parts will not come into contact with safety low voltage ones.
- The plastic case has an IP55 insulation; to connect flexible or rigid pipes, use pipefittings having the same insulation level.
- Also the automation upstream electric system shall comply with the laws and rules in force and be carried out workmanlike.

COMPATIBILITY

The device LUX2+ is compatible with the following control units:

CITY1-EVO	from version 1.0 onwards
CITY1-ECD	from version 2.4 onwards
CITY2+	from version 2.3 onwards
CITY4	from version 2.2 onwards

INSTALLATION

LUX2+ is an optional module that allows you to increase the capabilities of the V2 control unit controlling two independent relay outputs.

The outputs are programmable with 5 different functions via the programming menu i.Adi of the control unit.

 **ATTENTION: the installation of the device must be performed with the power supply of the control unit disconnected.**

Position the card LUX2+ inside the box of the control unit and connect the two ADI connectors (LUX2+ control unit) via the flat cable supplied (Fig.1).

Power on the control unit: the green led on the LUX2+ module begins to blink, indicating that the device is active.

Perform wiring and proceed with the programming of the operating parameters.

WIRING

On the device there are 3 terminal blocks:

- M1** relay 1 output
- M2** output for powering low voltage devices
- M3** relay 2 output

If the module has to control low voltage lights, make the connections as shown in figure 2.

ATTENTION: the voltage supplied by the exit M2 depends on the control unit:

- **230V-120V control units** → **M2 = 20 Vdc - 100mA**
- **24V control units** → **M2 = 12 Vdc - 100mA**

If the module has to control lights or other devices (e.g. electric brake) with 230V/ 120V make the connections as shown in figure 3.

LEDS

On the device there are 3 signalling leds:

FUNCTION: green led that flashes when LUX2+ is active

Ch1: red led that lights up when the relay 1 output is closed

Ch2: red led that lights up when the relay 2 output is closed

USE OF THE PROGRAMMING KEYS

The programming of the functions is performed by means of a configuration menu, accessible via the 3 keys ↑ (UP), ↓ (DOWN) and **OK** beneath the display of the control unit.

Below is a table that describes the functions of the keys:

	Press and release the key OK / MENU
	Press and release the key ↑ / UP
	Press and release the key ↓ / DOWN

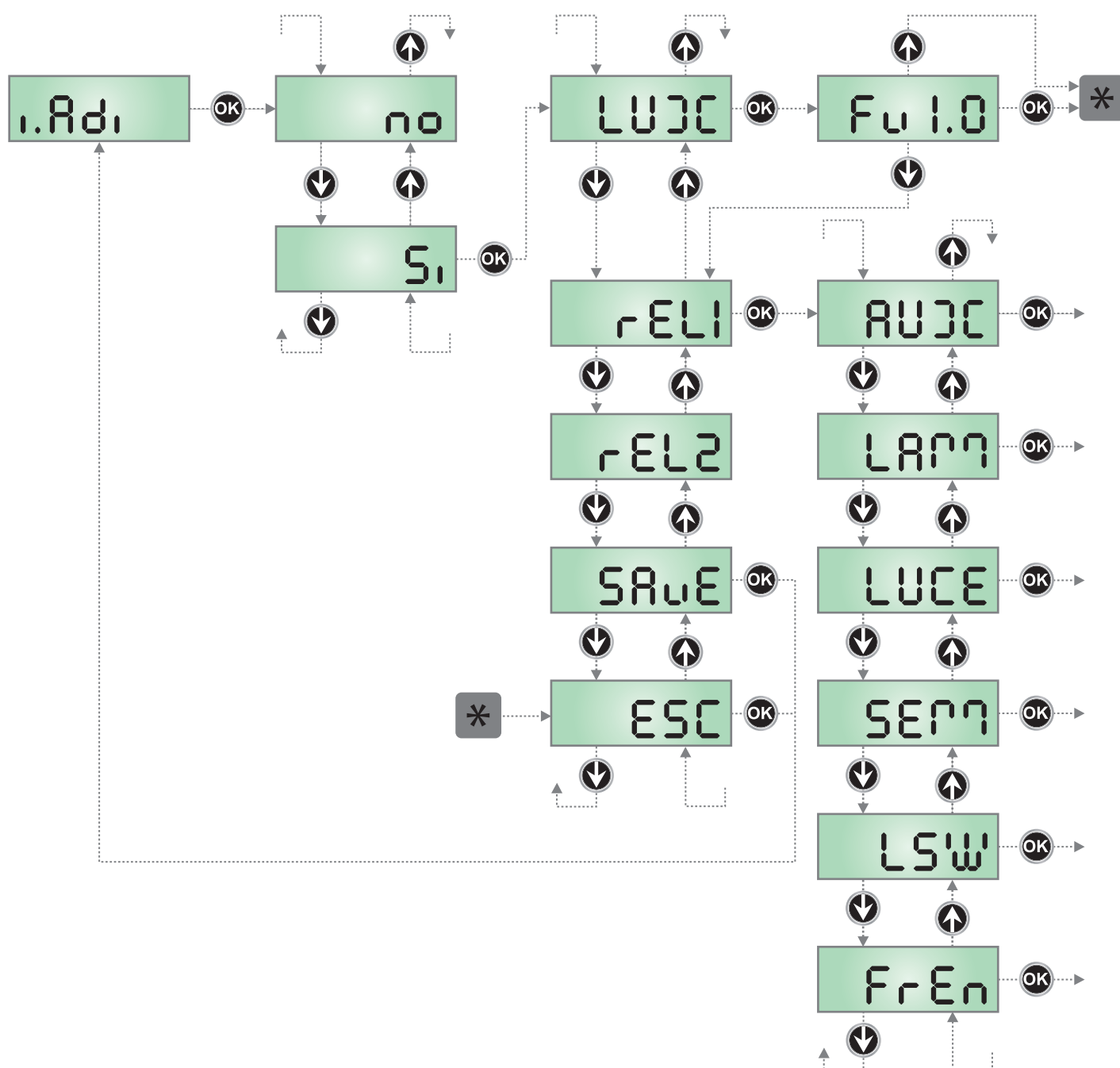
PROGRAMMING

Start the programming procedure on the control unit and select the menu **1.Ad1**

1. Select the item **S1** and press **OK**: the display shows **LUH**
NOTE: to display the firmware version of your device, press the **OK** key
2. Using the keys **↑** and **↓** select the output (**rEL1** or **rEL2**) whose operation logic you want to program and press **OK**
3. Using the keys **h** and **i** select the parameter you want to program:
AUX Auxiliary Channel: the relay output is controlled by a transmitter stored on channel 4 of the receiver embedded in the control unit. The relay output can be programmed with different operation logics
LAM Flashing light: According to the programmed logic the relay output is activated in an intermittent manner during the gate opening / closing / pause stages

- LUCE** Courtesy light: According to the programmed logic the relay is activated when the control unit receives a START command
- SEM** Semaphore: The relay output is opened or closed depending on the settings of the various stages of the operation cycle (gate stopped and closed, gate opening, gate closing, gate stopped, gate paused)
- LSW** Limit switch signal: The relay output is used to signal the achievement of the limit switches of the leaves.
- FrEn** Electric brake: The relay output controls the electric brake of the motor, by opening or closing when the motor is operated.

4. After programming the parameters, select the item **SAVE** to save the settings and the item **ESC** to exit the programming menu



AUXILIARY CHANNEL

The relay output is controlled by a transmitter stored on channel 4 of the receiver.

Mon Steady state: the relay output is closed for the duration of the transmission of the remote control.
Releasing the button on the remote control the relay output is opened.

NOTE Timer 2: the relay output is closed when the transmission is received from the remote control and opened after the set time. If another transmission is received during activation, the relay output is opened.

FLASHING LIGHT

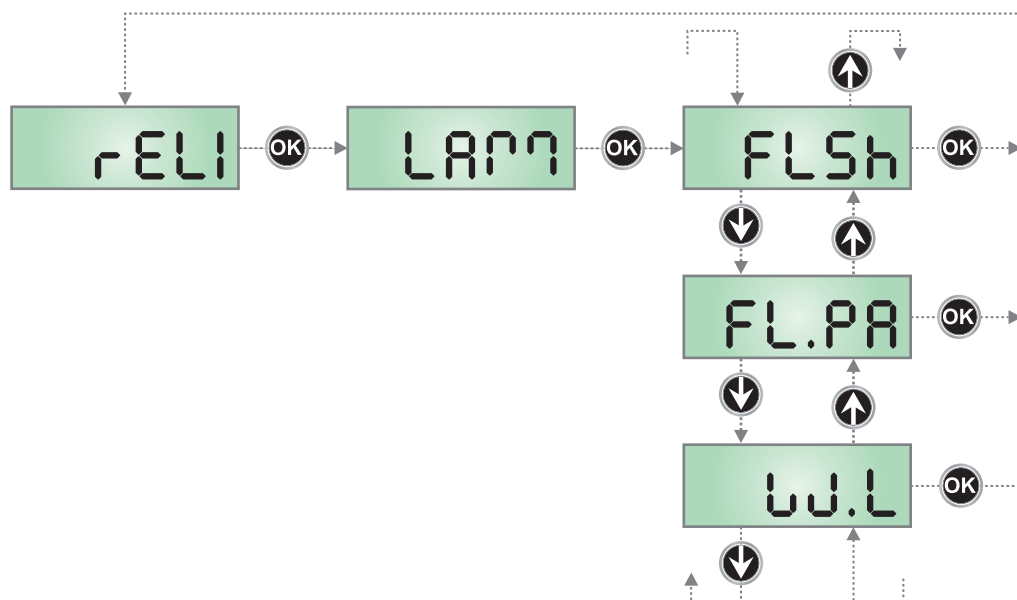
According to the programmed logic the relay output is activated in an intermittent manner during the opening and/or closing stages of the gate.

FLSH Flashing 1: the relay output is operated intermittently at 2 Hz when the gate is moving, including any pre-flashing stage prior to departure

FL.PA Flashing 2: the relay output is operated intermittently at 2 Hz when the gate is moving, during any pre-flashing stage and with open, paused gate

W.L. Warning light: indicates the real time status of the gate, the type of flashing indicates the four possible conditions:

- GATE STOPPED light off
- GATE PAUSED light steadily on
- GATE OPENING the light flashes slowly (2Hz)
- GATE CLOSING the light flashes quickly (4Hz)

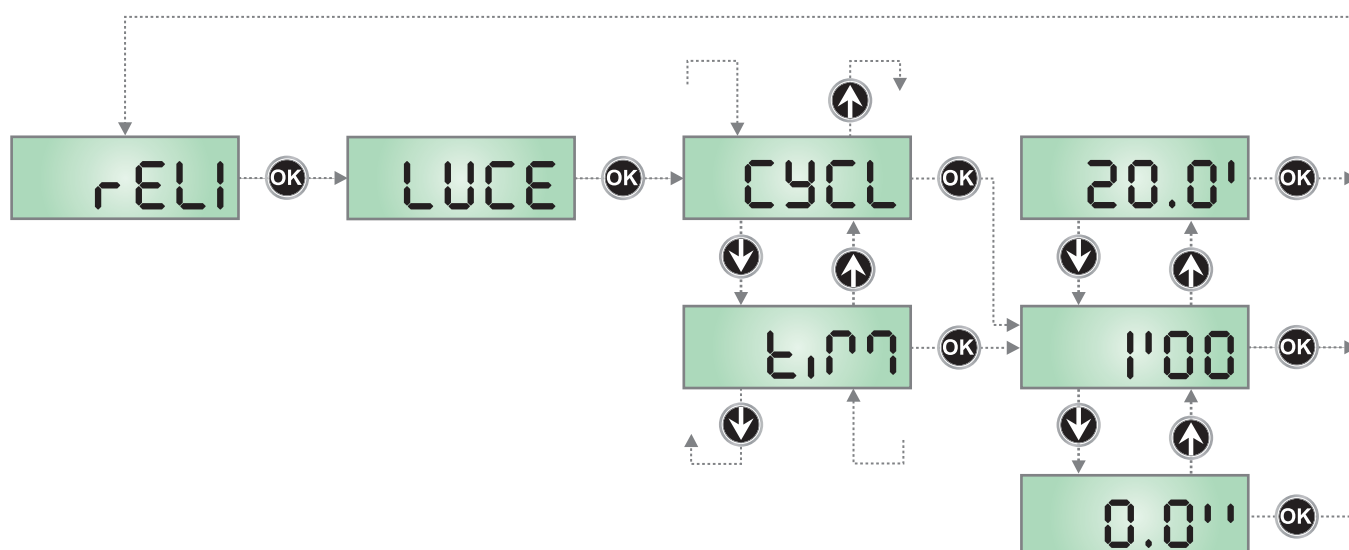


COURTESY LIGHT

According to the programmed logic the relay is closed when the control unit receives a START command

CYCL The relay output is closed when the control unit receives a START command. When the gate closes the relay output still remains closed for the set time, then opens.

t.m The relay output is closed when the control unit receives a START command and opened after the set timer. If another START command is received during activation, the timer is reset.

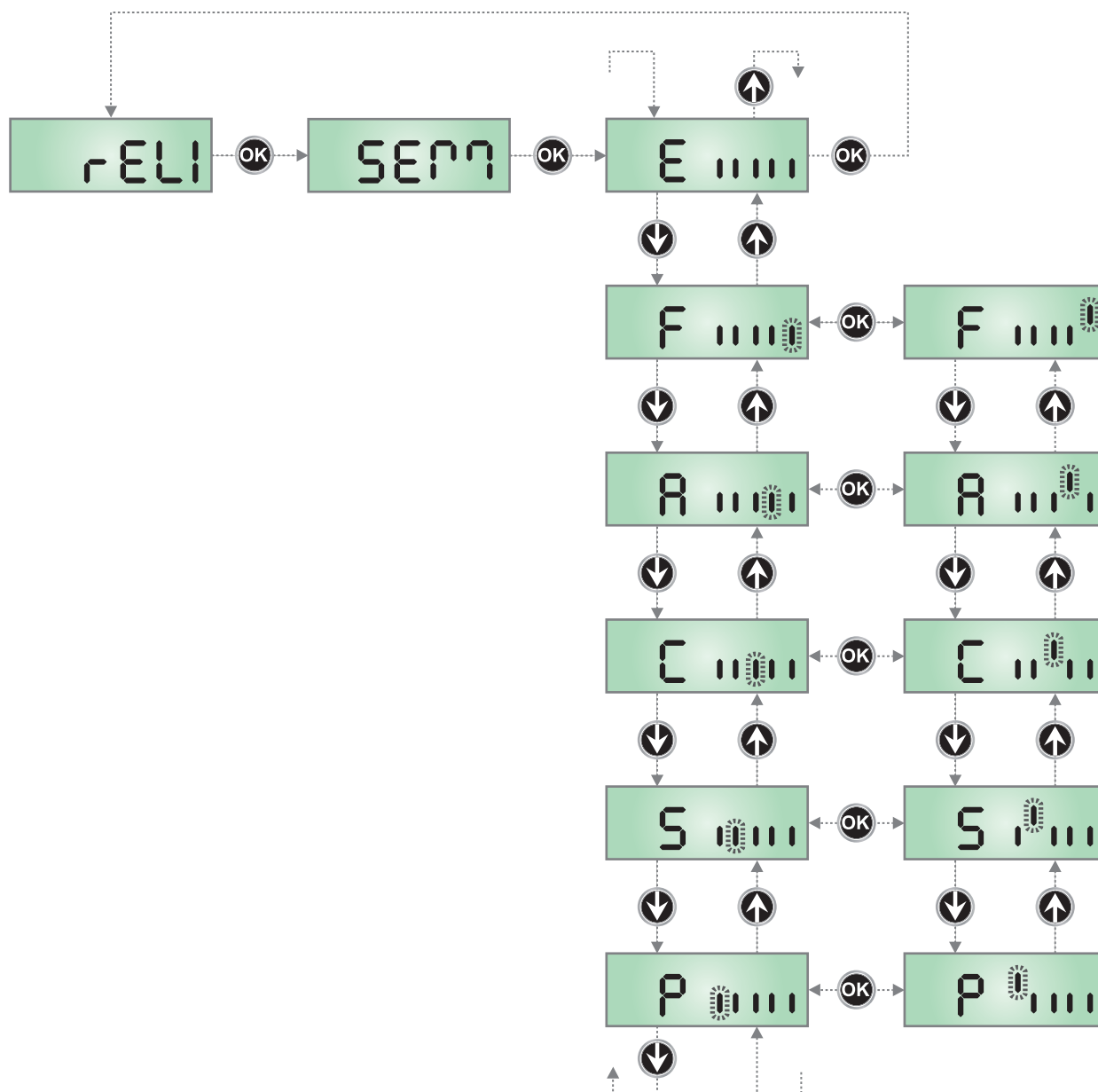


ENGLISH

Each stage of the operation cycle is identified by a letter:

- The state of the output relay is defined by the flashing segment:
 OPEN: the BOTTOM segment flashes
 CLOSED: the TOP segment flashes

1. Using the keys **↑** and **↓**, select the different stages of the operation cycle and pressing the **OK** button select the status of the relay output
2. When you are finished with the settings, select the menu **E** to exit and press the **OK** key to confirm



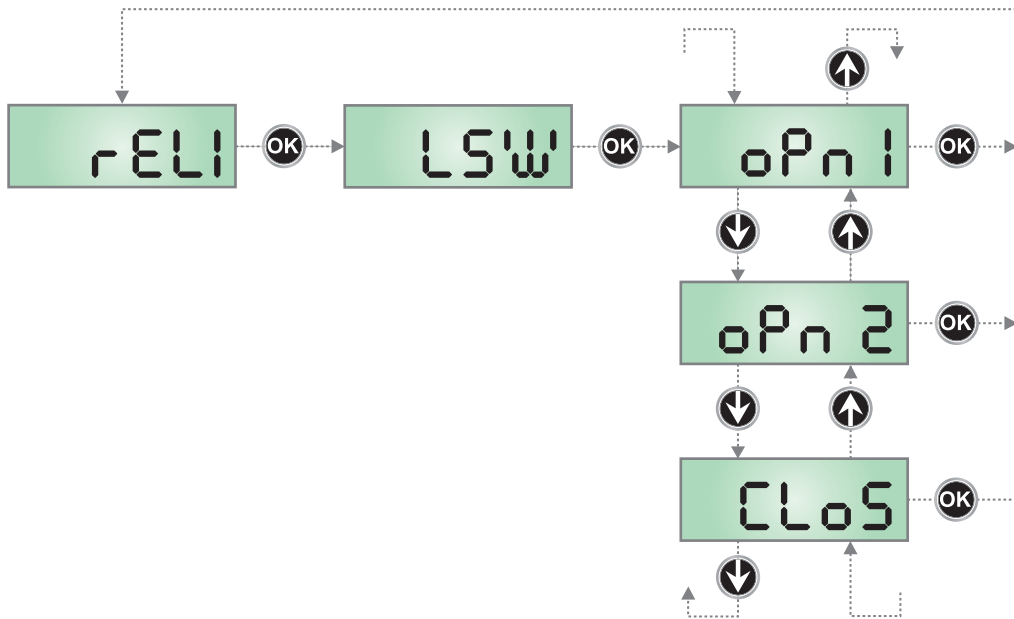
LIMIT SWITCH SIGNAL

The relay output is used to signal the achievement of the limit switches of the leaves:

- oPn1** The relay output is closed when the leaf 1 is fully open
- oPn2** The relay output is closed when both leaves are fully open

- CLoS** The relay output is closed when both leaves are fully close

NOTE: if the gate has only one leaf, select the option **oPn1**; if it has 2 leaves, select the option **oPn2**

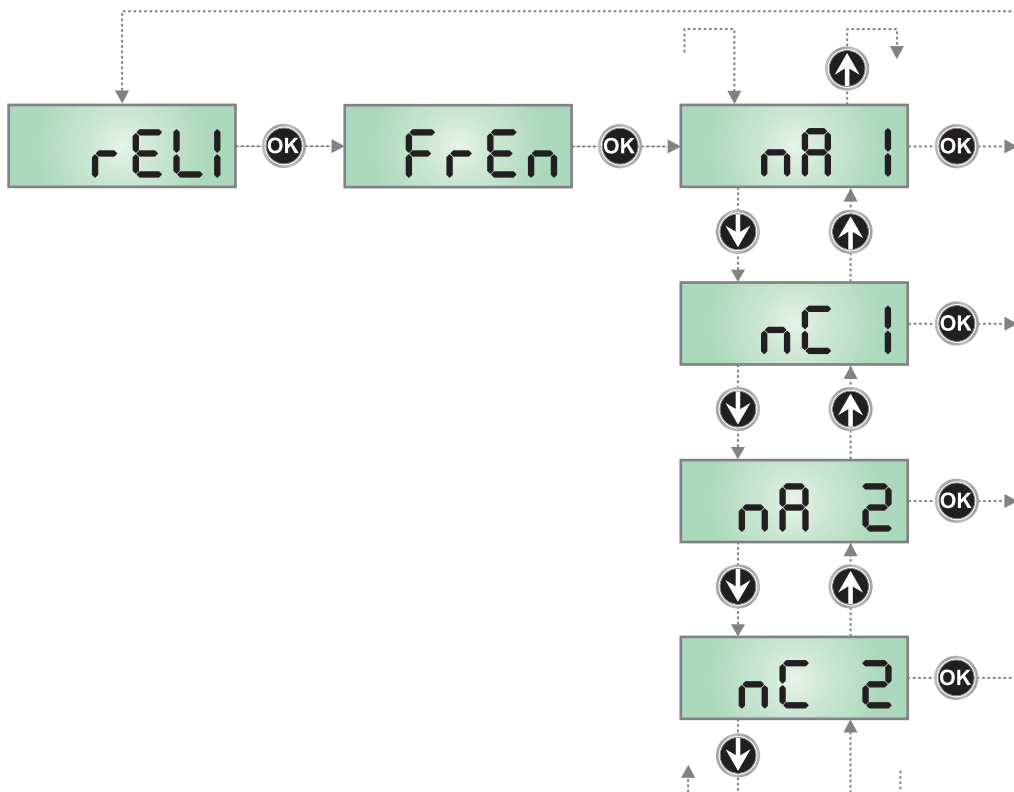


ELECTRIC BRAKE

The relay output controls the electric brake of the motor, by opening or closing when the motor is operated.

- nR1** the relay output is open when the motor 1 is at rest, and closed when it is actuated
- nC1** the relay output is closed when the motor 1 is at rest, and open when it is actuated

- nR2** the relay output is open when the motor 2 is at rest, and closed when it is actuated
- nC2** the relay output is closed when the motor 2 is at rest, and open when it is actuated



CONSEILS IMPORTANTS

Pour tout précision technique ou problème d'installation V2 dispose d'un Service Clients à Votre disposition du lundi au vendredi de 8:30 à 12:30 et de 14:00 heures à 18:00 heures au numéro +39-0172.812411

V2 se réserve le droit d'apporter d'éventuelles modifications au produit sans préavis; elle décline en outre toute responsabilité pour tous types de dommages aux personnes ou aux choses dus à une utilisation impropre ou à une mauvaise installation.

- Ce manuel d'instruction est destiné à des techniciens qualifiés dans le domaine des automatismes.
- Aucune des informations contenues dans ce livret pourra être utile pour le particulier.
- Tous opérations de maintenance ou programmation doivent être faites à travers de techniciens qualifiés.
- L'installateur doit pourvoir à l'installation d'un dispositif (ex. interrupteur magnétothermique) qui assure la coupure omnipolaire de l'équipement du réseau d'alimentation. La norme requiert une séparation des contacts d'au moins 3 mm pour chaque pôle (EN 60335-1).
- Quand on a effectué les branchements à la bornière, il faut mettre des bandes sur les conducteurs à tension qui se trouvent en proximité de la bornière et sur les conducteurs pour le branchement des parties externes (accessoires). De cette manière, en cas de détachement d'un conducteur, on évite que les parties en tension puissent aller en contact avec les parties à faible tension de sécurité.
- Pour la connexion de tubes rigides ou flexibles utiliser des raccordements possédant le IP55 niveau de protection.
- Même l'installation électrique ou on branche l'automatisme doit répondre aux normes en vigueur et être fait à règles de l'art.

COMPATIBILITÉ

Le dispositif LUX2+ est compatible avec les centrales de commande suivantes :

CITY1-EVO	à partir de la version 1.0 et suivantes
CITY1-ECD	à partir de la version 2.4 et suivantes
CITY2+	à partir de la version 2.3 et suivantes
CITY4	à partir de la version 2.2 et suivantes

INSTALLATION

LUX2+ est un module en option qui permet d'augmenter les fonctions des centrales de commande V2 en pilotant deux sorties relais indépendantes.

Les sorties sont programmables avec 5 fonctions différentes au moyen du menu de programmation i.Adi de la centrale de commande.

ATTENTION : l'installation du dispositif doit être effectuée avec l'alimentation de la centrale de commande débranchée.

Loger la carte LUX2+ à l'intérieur de la boîte de la centrale de commande et brancher les deux connecteurs ADI (LUX2+ et centrale de commande) à l'aide du câble plat fourni (Fig.1).

Alimenter la centrale de commande : le led vert présent sur le module LUX2+ commence à clignoter pour indiquer que le dispositif est activé.

Effectuer les branchements électriques et procéder à la programmation des paramètres de fonctionnement.

BRANCHEMENTS ÉLECTRIQUES

Sur le dispositif, figurent 3 boîtes à bornes :

- M1** sortie relais 1
- M2** sortie pour alimenter les dispositifs à basse tension
- M3** sortie relais 2

Si le module doit piloter des lumières à basse pression, effectuer les branchements comme indiqué à la fig. 2.

ATTENTION : la tension fournie par la sortie M2 dépend de la centrale de commande:

- centrales 230V-120V → **M2 = 20 Vcc - 100mA**
- centrales 24V → **M2 = 12 Vcc - 100mA**

Si le module doit piloter des lumières ou autres dispositifs (ex. électro-frein) à 230V/120V, effectuer les branchements comme indiqué à la fig. 3.

LED

Sur le dispositif, figurent 3 led de signalisation :

FUNCTION: led vert qui clignote quand LUX2+ est en marche

Ch1: led rouge qui s'allume quand la sortie relais 1 est fermée

Ch2: led rouge qui s'allume quand la sortie relais 2 est fermée

UTILISATION DES TOUCHES POUR LA PROGRAMMATION

La programmation des fonctions est effectuée à l'aide d'un menu de configuration spécifique, accessible et explorable au moyen des 3 touches ↑ (UP), ↓ (DOWN) et **OK** situés sous le display de la centrale.

Ci-après un tableau qui décrit les fonctions des touches :

	Enfoncer et relâcher la touche OK / MENU
	Enfoncer et relâcher la touche ↑ / UP
	Enfoncer et relâcher la touche ↓ / DOWN