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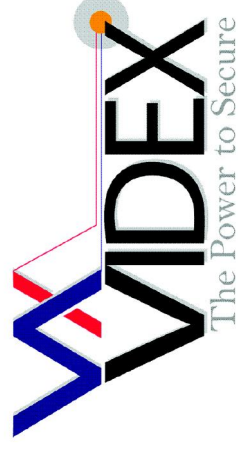
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VANDAL RESISTANT ONE BUTTON DOOR ENTRY KIT WITH CODED ACCESS

VR4K-1/CL



SYMPTOM	TEST
No speech from the door panel to the telephone	Check terminal 2 on the amplifier for continuity to terminal 2 on the telephone Check the voltage drops to approx. 1Vdc after the handset is lifted. (If not try another telephone) If all else fails try another amplifier at the door station
No speech from the telephone to the door panel	Check terminal 1 on the door panel amplifier for continuity back to terminal 1 on the telephone Check the voltage drops to approx. 4Vdc after the handset is lifted. (If not try another telephone) If all else fails try another amplifier at the door station
No speech in either direction	Check the 315mA fuse in the power supply Check for 12Vdc across terminals + & - on the door panel amplifier. This should be there all the time and comes directly from the PSU
Lock will not operate from telephone	Check terminal 5 on the telephone. This terminal shorts to terminal 3 of the telephone when pressed (Becomes 0V) and sends a 0V to terminal 5 on the VX136 amplifier at the door panel which in turn triggers the relay Check the relay on the VX136 is energising. Use a continuity meter to check the switching
Nothing happens when call button is pressed	Check the common of the button is connected to 1 on the VX136 Check continuity from the other side of the call button to terminal 4 on the handset
Hum on the speech lines	Ensure all intercom cables do not run close to higher voltage cables Try another amplifier at the door panel
Codelock not operating	Check power on terminals 1 & 2 on the codelock is 12V. If this voltage is lower it may not operate the relays correctly Check the keys beep when pressed. This will not happen if the codelock is faulty or has the incorrect power connected to terminals 1 & 2 Try re-programming the codelock

Engineers code	
Relay 1 code	
Relay 2 code	
Relay 3 code	

Relay 1 Time	
Relay 2 Time	
Relay 3 Time	

Press Enter

Two digits (01 – 99 Sec
or 00 for remain open)

RED Light will
switch off

* If the red light does not illuminate, the engineers code is incorrect. Follow the factory default procedure below.

Step 3 Release the enter button. The factory engineer's code is restored to 111111 (6 x 1)

The information in this manual is intended as an installation and commissioning guide for the vandal resistant one button audio intercom kit. This manual should be read carefully before the installation commences. Any damage caused to the equipment due to faulty installations where the information in this manual has not been followed is not the responsibility of Videx Security Ltd.

VIDEX run free training courses for engineers who are not familiar with the Videx product range. Technical help is also available on 0191 224 3174 during office hours or via e-mail tech@videx-security.com.

This kit will enable a caller at an entrance point to signal an occupant in the dwelling by pressing a call button which will send an electronic call tone to an audio telephone. A Yellow 'SPEAK' LED will indicate the call has been answered and a two way conversation can take place, the occupant can release an electric lock release by pressing a button on the telephone base unit. The kit does not include the electric lock release. A 12V AC release should be used with this kit (The output for the lock is a dry contact relay so any other type of lock can be used with an appropriate PSU). If this kit is to be used with a gate, the dry contact output can be used to trigger the gate control board. DDA features such as a 'SPEAK' LED, 'DOOR OPEN' LED and reassurance tones are standard on this kit.

A three code, three relay code lock unit is also incorporated into the door panel to allow users to gain access using an access code.

This kit comprises of a flush or surface vandal resistant door panel, audio telephone and PSU. Up to a maximum of three telephones can be used on the system to call in parallel.

The vandal resistant door panel will consist of an amplifier module, code lock module, button, vandal resistant plate, frame and back box.

Dip-Switches

The four way dip-switch bank has the following functions. Please note: dip-switches must be set before power up. Any changes made when power is on will not take effect until a power down reset.



Speech time	
Switch 1 OFF	1 Minute
Switch 1 ON	2 Minutes

Relay time	
Switch 2 OFF	2 Seconds
Switch 3 OFF	4 Seconds
Switch 3 ON	4 Seconds
Switch 2 ON	3 Seconds
Switch 3 OFF	20 Seconds
Switch 3 ON	20 Seconds

Speech live	
Switch 4 OFF	Only when called
Switch 4 ON	Speech live (Only possible on one door systems)
Switch 4 ON	Speech live whenever a handset is lifted

Jumper
Jumper JP controls the reassurance tone volume level at the door panel.

	Position H	High volume reassurance tones
	Position L	Low Volume reassurance tones
	No Jumper	No reassurance tones

NOTES

Speech volume adjustments are carried out at the door panel using a small trimmer driver.



Amplifier module (VX136)

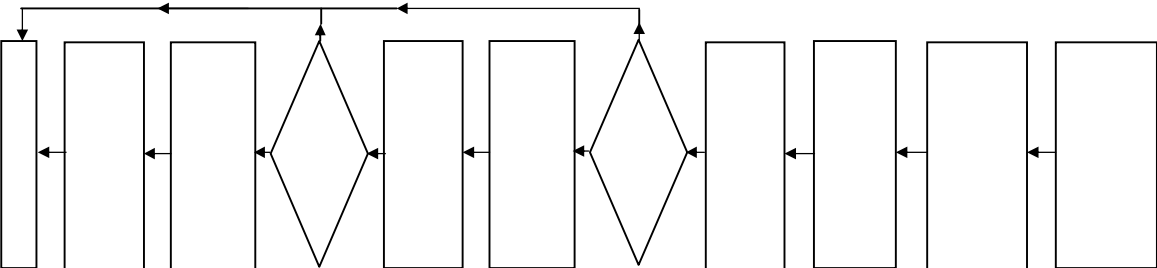
Connection	Function
1	Receive speech from apartment
2	Transmit speech to apartment
+	+12Vdc input
-	0V (Ground)
5	Switched 0V from phone to trigger door release relay
T	Electronic call tone output to common side of call buttons
-	0V for use with push to exit input (PTE)
PTE	Switched 0V Input from push to exit button to trigger door release relay
C	Common connection of dry contact relay
NC	Normally closed connection of dry contact relay
NO	Normally open connection of dry contact relay
D+	External link to door open (+12V side) LED. Not used with this kit
D-	External link to door open (0V side) LED. Not used with this kit
BSY	Busy signal for use with multiple door systems (Normally high, 12V. Low when busy 0V)
SL	Switched 0V output to switch on video PSU. (0V throughout a call, open collector in standby)
F1	Switched 0V output to switch on camera. (0V throughout a call, open collector in standby)

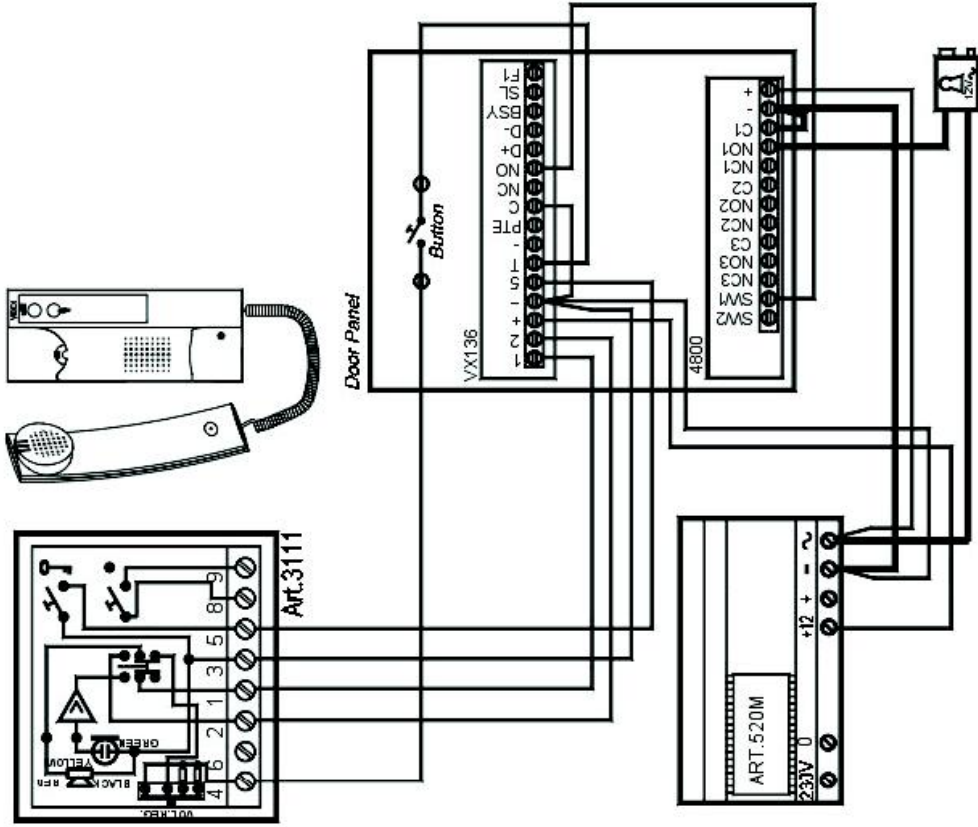
Codeclock module (AT14800)

Connection	Function
+	12-24V ac/dc power input
-	0V power input
C1	Common connection of relay 1 (Dry contact)
NO1	Normally open connection of relay 1 (Dry contact)
NC1	Normally closed connection of relay 1 (Dry contact)
C2	Common connection of relay 2 (Dry contact)
NO2	Normally open connection of relay 2 (Dry contact)
NC2	Normally closed connection of relay 2 (Dry contact)
C3	Common connection of relay 3 (Dry contact)
NO3	Normally open connection of relay 3 (Dry contact)
NC3	Normally closed connection of relay 3 (Dry contact)
SW1	Push to exit input for relay 1 (Triggered by 0V)
SW2	Push to exit input for relay 2 (Triggered by 0V)



All programming is carried out using the codeclock keypad. The programming menu is protected by an engineer's code. The factory default engineers code is 111111 (6x1). This code can be changed to any four to eight digit code during the program but must be **different to the codes used to gain entry. Follow the flow chart to setup the system:-**





The 4800 includes three relays (5A contacts), two push to exit inputs (Switched negative) and can have up to three 4 to 8 digit access codes programmed (One per relay). The relay times can be programmed from 01 second up to 99 seconds or by setting the relay time to 00, latch the relay (To latch) enter the code followed by enter and to unlatch enter the code followed by clear).

Dimensions

	PANEL	FLUSH BACK BOX
Surface Audio panel with code lock	135mm(W) x 280mm(H) x 43mm(D)	N/A
Flush Audio panel with code lock	135mm(W) x 280mm(H) x 16mm(D)	120mm(W) x 263mm(H) x 30mm(D)

Art.520M

The power supply is the Art.520M. Outputs of 12Vdc (200mA), 8Vdc (300mA) and 13Vac (1A) are available. The dc outputs are designed to power the amplifier modules only and must not be used to power other devices such as lock releases etc. These items must be connected to the AC output of this power supply or auxiliary power supply.

CONNECTIONS

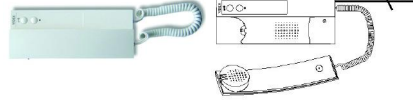
Terminal	Function
+12	12Vdc output (200mA Max.)
+8	8Vdc output (300mA Max.)
0	0V (Ground)
13	13Vac (1A Max.)
230	Mains in (Live connection)
0	Mains in (Neutral connection)

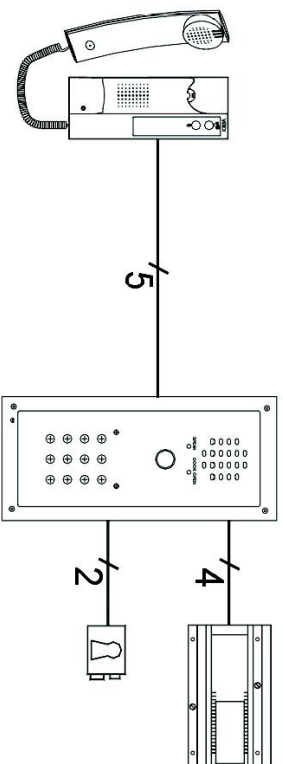
Art.3111

The Art.3111 is a white ABS plastic wall mounting electronic call telephone and includes a lock release push button and spare dry contact button. There is a three position call volume control external to the top left side of the telephone.

CONNECTIONS:-

	Function
1	Transmit speech to the door panel
2	Receive speech from the door panel
3	0V
4	Call tone input
5	Lock trigger (Switched 0V)
6	Not used
8	One side of spare dry contact button (Max. 200mA 24V)
9	Second side of spare dry contact button (Max. 200mA 24V)

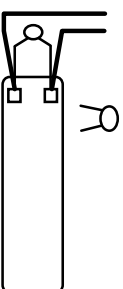




The wiring diagram towards the back of this manual should be followed carefully. Heavy duty conductors on wiring diagrams are shown heavily outlined, these wires should be double up.

- Check that all components are free from damage before installing. (Do not proceed with installation in the event of damage).
- Keep all packaging away from children.
- Do not obstruct the ventilation openings or slots on any of the devices.
- All connections to mains voltages must be made to the current national standards (IEE Wiring regulations).
- Install an appropriate fused spur or isolation switch to isolate the mains.
- Isolate the mains before carrying out any maintenance work on the system.
- All intercom and access control cables must be routed separately from the mains.
- When the panel is mounted on an uneven surface, use additional sealant to protect from water ingress.

Lock release back EMI protection : A capacitor should be fitted across the terminals on an AC lock release as shown in the diagram below to suppress back EMF voltages.



Connections from door panel to telephone

Connections	50m	100m	200m	300m	400m
1	0.25mm ²	0.35mm ²	0.5mm ²	0.75mm ²	1.0mm ²
2	0.25mm ²	0.35mm ²	0.5mm ²	0.75mm ²	1.0mm ²
3	0.25mm ²	0.35mm ²	0.5mm ²	0.75mm ²	1.0mm ²
4	0.25mm ²	0.35mm ²	0.5mm ²	0.75mm ²	1.0mm ²
5	0.25mm ²	0.35mm ²	0.5mm ²	0.75mm ²	1.0mm ²

Maximum acceptable resistance for all terminals = 100Ω

Connections for power supply output to door panel and lock release connections. These connections are shown heavily outlined on the wiring diagram.

Connections	50m	100m
1	0.5mm ²	0.75mm ²

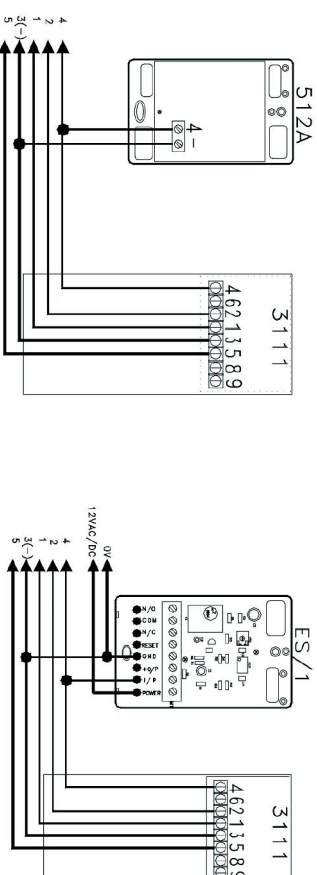
The power supply should be located as close to the door panel as possible for best performance. Maximum acceptable resistance for above cables = 30Ω

- Check all the connections have been made correctly and dip-switches have been set and then power up the system.
- Call the apartments. Check for call to the apartment, speech in both directions and lock release and correct operation of the SPEAK & DOOR OPEN LED's.
- If the volume of speech needs to be adjusted, this can be done by adjusting the presets on the rear of the amplifier at the door panel.
- Program a code into the code lock and check it releases the door for the programmed time.

The door panel is manufactured from 12 Gauge 304 grade stainless steel. It is important that the fascia is cleaned on regular occasions to prevent dirt build up and tarnishing of the metal. A general household metal polish can be used but care should be taken to follow the grain of the metal when polishing and also avoid any polish build up around the call button which may prevent the button from operating correctly.

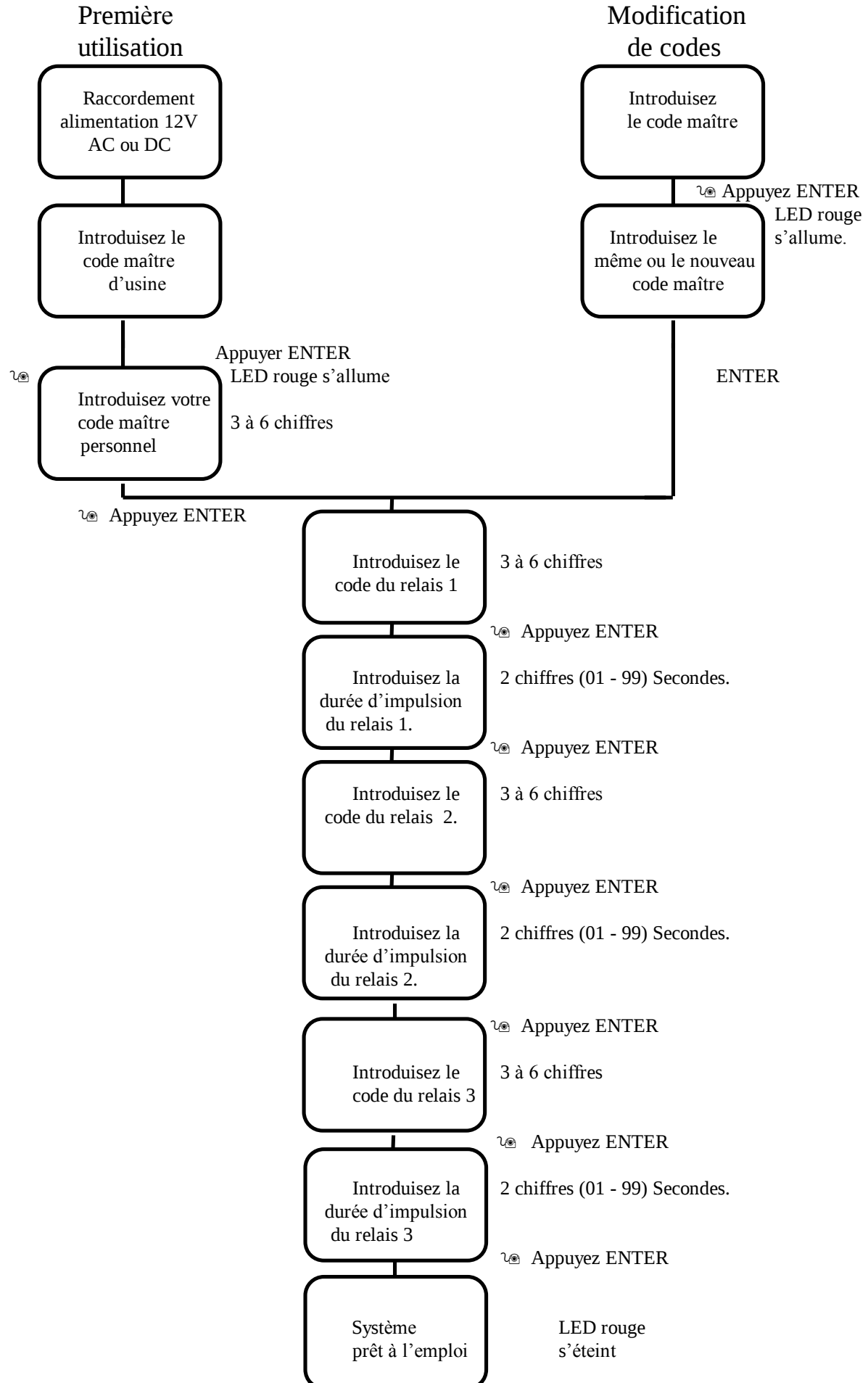
512A Extension sounder

ES/1 Extension Strobe



- A normally open push to exit button can be connected across PTE & - on the door panel.
- When triggering a gate, use C & NO as dry contacts.
- When using a fail safe lock release use a separate DC PSU and the NC connection instead of the NO connection.
- Remember to fit the 0.1uF capacitor across the lock release.

VPA800



- Note: - Pour arrêter la programme avant la fin du cycle, appuyez 2 fois sur la touche "ENTER" (la LED rouge s'éteint.)
- Pour activer un relais, introduisez la code exact et confirmez par "ENTER" et la sortie restera enclenchée suivant le temps programmé.
 - Pour l'annulation durant le temps restant actionnez le touche "CLEAR"
 - Afin de faire fonctionner deux relais simultanément, programmer les 2 relais avec le même code.

Pour un reset complet il faut débrancher l'alimentation, appuyer sur ENTER pendant que l'alimentation est remis. Ainsi toutes les données sont effacées.

Instructions pour VPA800

Installation pour un système à 3 relais

1. Enclenchez l'alimentation 12V AC ou DC.
2. Introduisez le "code maître" 6 x 1 (111111) et confirmez par la touche ENTER et la LED PROG s'allume.
3. Introduisez le nouveau ou le même "code maître" (de 3 à 6 touches) et confirmez par ENTER.
4. Introduisez le code du relais 1 (de 3 à 6 touches) et confirmez par ENTER
5. Introduisez la durée d'impulsion du relais 1 et confirmez par ENTER
 - 01 = 1 sec
 - 99 = 99 sec
6. Introduisez le code du relais 2 et confirmez par ENTER.
7. De la même manière qu'au point 5, introduisez la durée d'impulsion du relais 2.
8. Introduisez le code du relais 3 et confirmez par ENTER.
9. De la même manière qu'au point 5, introduisez la durée d'impulsion du relais 3.
10. Pour quitter le mode de programmation l'on peut à tout moment interrompre en appuyant 2 fois la touche ENTER.

Remarques

- * Lorsqu'un seul relais est utilisé, appuyez 2 fois sur ENTER après l'instruction 5.
- * Lors de l'introduction d'un code erroné, la connection s'effectue en actionnant la touche CLEAR (seulement en mode programmation).
- * Pour la modification d'un code, suivez la procédure décrite à partir du point 2.
- * Tous les relais peuvent être commandés à des moments différents.
- * Si un code erroné est introduit (en fonctionnement) la système est mis hors service pendant 5 sec. (ce temps de mise hors service est à chaque fois rallongé à chaque introduction de code erroné).
Le système fonctionne à nouveau normalement lorsque le code correct est introduit.

Caratéristiques techniques

- Consommation sous 12 V AC ou DC:
 - 15 mA avec tous les relais au repos
 - 315 mA avec tous les relais activés et l'éclairage enclenché
- Tous les relais disposent d'un contact NO et NF (contact normalement ouvert et normalement fermé).
- Le courant max. du contact du relais est de 5A sous 24V AC ou DC.