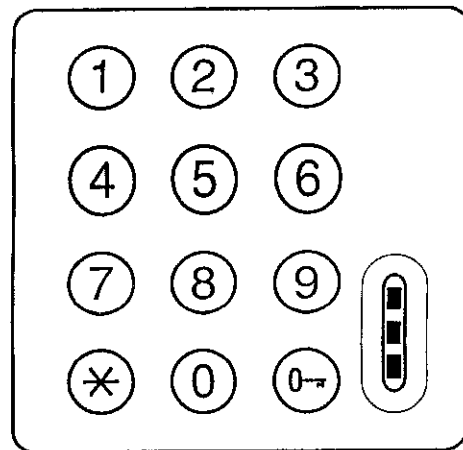
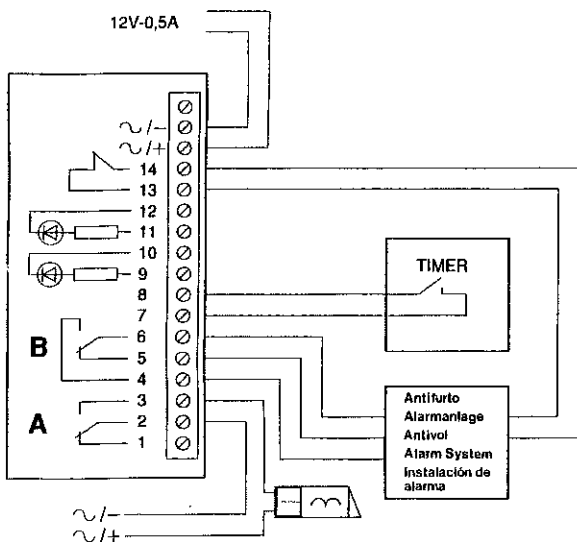
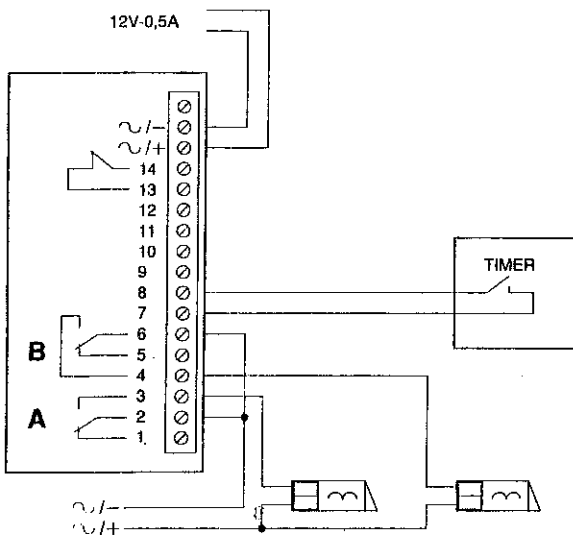


Legend Tech. - 0121-515-0515.

LT TERRANEO

2410



A 1-2-3 max. 5A 24Vdc o 5A 250Vac
B 4-5-6 max. 1A 24Vdc o 0,2A 125Vac

Istruzioni per l'uso
 Montageanleitung
 Notice de montage
 Instruction sheet
 Instrucciones de empleo

Specifications

- Power supplies: 12V DC - 5% +20% 115mA
 12V AC +/-20% 235mA
- Outputs A - relay changeover 5A 24Vdc / 5A 250Vac PF 0,4
 B - relay changeover 1A 24Vdc / 0,2A 125Vac PF 0,4
- Audible indications
- a) key accepted (single short tone)
 - b) new programmed value accepted (three short tones)
 - c) programming error (single long tone)
- Visual indications
- a) Yellow LED for output confirmation
 - b) 2 LEDs (1 red, 1 green) for connection to external circuit
- Operating temperature range: from -20° C to +50° C

Operation

"Codelock" is an electronic device for the actuation of door opening and alarm installations. The actuation of these circuits is effected by means of the recognition of the numeric code sequences previously programmed into the device. The outputs consist of two relays for the operation of the user circuits as follows:

Output A - Activates a relay which operates in monostable mode, with a duration programmable from 1 to 15 seconds. (On recognition of code "A")

Output B - Activates a relay which latches in monostable mode, with a duration programmable from 1 to 15 seconds. (On recognition of code "B")

The operating logic is defined by programming the device and by the opening or closure of two terminals connected to an external timer (terminals 7 and 8). The numeric codes "A" and "B" are programmed directly from the keypad into non-volatile memory.

Output "A" logic (1 to 15 seconds monostable period) for use with an electrically operated door lock.

- Two different modes of operation are available depending on whether the two terminals connected to the external timer are "open" or "closed".
- timer terminals "open":
Output "A" is activated by entering code "A" (3, 4 or 5 digit code)
 - timer terminals "closed":
Output "A" is activated by pressing the "key" button.

Output "B" logic (1 to 15 seconds monostable period) for activation of an alarm system or for use with a second electrically operated door lock.

The operating mode for activation of an alarm system or for the operation of a second electrically operated door lock must be selected during programming (refer to step "h" of programming sequence for code "B"). If the alarm mode is selected, the output is activated for the predetermined time period on inputting the first two digits of the 5 digit code "B", the alarm system may then be deactivated by inputting the full 5 digit code "B". If the electrically operated door lock mode is selected, the output is activated for the predetermined time period by inputting the full 5 digit code "B".

The monostable or bistable operation of output "B" is determined during the code programming sequence (refer to step "g" of the code "B" programming sequence).

Operation of the device in normal operating mode

If on powering up the installation the yellow LED flashes regularly, the device should be returned to the service centre for repair. The activation of outputs "A" and "B" in the monostable mode is indicated by the yellow LED which will light up for the time period selected during programming (from 1 to 15 seconds).

If the yellow LED flashes regularly when the installation is operational, the device needs to be reprogrammed. The time lapse between pressing two keys must not exceed 5 seconds. If such a time limit is exceeded or in the event of an incorrect code being entered, the device is deactivated for a period of 15 seconds and will emit a tone of 1 second duration.

Operation of the device in programming mode

The programming sequences for codes and for time periods will only be considered valid if the device is configured as follows, any other configuration will cause the programming sequences to be ignored. The device will indicate acceptance of each programming keystroke by means of a short tone and will indicate acceptance of the programming sequence by means of three short tones.

For security reasons, a "MASTER" code is implemented, by means of which it is possible to access the time settings and codes for the outputs. The device is supplied with a "MASTER" code of 1, 2, 3, 4 which should then be set to a new code by the user.

In the event that the user code is forgotten, the user should contact the service centre. In order to program the new "MASTER" code, the "A" and "B" codes, the operating times for outputs "A" and "B" in monostable mode, the following programming sequences should be followed.

Programming of new "MASTER" code (4 digit)

- a) Key in: ** (this specifies master code programming)
- b) Key in the current "MASTER" 4 digit code (the first time this will correspond to the sequence: 1, 2, 3, 4)
- c) Key in: **
- d) key in the new "MASTER" code sequence
- e) Key in: * (this indicates the end of the programming sequence)

The programming sequence is thus as follows:

a	b	c	d	e	
**	0000	**	MMMM	*	where:

0000 indicates the old MASTER code, and MMMM indicates the new MASTER code

Examples: by keying in the following sequence:

a	b	c	d	e	
**	1234	**	9876	*	

the new MASTER code will be 9876, and keying:

a	b	c	d	e	
**	9876	**	5678	*	

the new MASTER code will be 5678.

Programming of code "A" (3, 4 or 5 digits)

- Key in: **
- Key in the user defined "MASTER" code
- Key in: * (indicates start of programming sequence)
- Key in: 1 (indicates code "A" programming)
- Key in the numeric sequence for the desired code
- Press the "Key" button (indicates end of numeric code)
- Key in the output duration for output "A" (always expressed as two digits, from 01 to 15 which corresponds to times ranging from 1 to 15 seconds)
- Key in: * (to indicate that the programming sequence is complete).

The programming sequence for code "A" is thus as follows:

a	b	c	d	e	f	g	h
**	MMMM	*	1	AAA(AA)	"Key"	TT	*

where:

- MMMM** indicates the user defined "MASTER" code
AAA (AA) indicates the code to be assigned to output "A" (minimum 3 digits, maximum 5 digits)
TT indicates relay "A" activation time (1 to 15 secs.)

Programming of code "B" (always 5 digits)

- Key in: **
- Key in the user defined "MASTER" code
- Key in: * (indicates start of programming sequence)
- Key in: 2 (indicates code "B" programming)
- Key in the numeric sequence for the desired code
- Press the "Key" button (indicates end of numeric code)
- Key in the output duration for output "B" (always expressed as two digits, from 01 to 15 which corresponds to times ranging from 1 to 15 seconds)
- Press the key corresponding to the required activation mode:
 - 0 - for alarm system activation
 - 1 - for second electrically operated lock
 For operation refer to "Output "B" logic (monostable operation)" description on page 1
- Key in: * (to indicate that the programming sequence is complete).

The programming sequence for code "B" is thus as follows:

a	b	c	d	e	f	g	h	i
**	MMMM	*	2	BBBBB	"Key"	TT	C	*

where:

- MMMM** indicates the user defined "MASTER" code
BBBBB indicates the code to be assigned to output "B"
TT indicates relay "B" activation time (1 to 15 secs.)
C indicates output "B" activation mode (alarm system or second door lock)

It is possible to use a 5 digit code (instead of a 2 digit code) even for the activation of the alarm system, by proceeding as follows:

- Output "B" monostable mode: at step h of the programming sequence 1 should be entered as opposed to 0

The device is supplied with "A" code 1,2,3,4,5 and "B" code 6,7,8,9,0.

The following rules should be respected during programming:

- there should not be a time lapse of more than 5 seconds between one keystroke and the next for steps a), b) and c).
- The first two digits of code "A" should not be identical to the corresponding digits for code "B".

The device is supplied with A code 1,2,3,4,5 and B code 6,7,8,9,0. In the event that these rules are not respected, the programming sequence will be aborted and this fact will be indicated by a long tone; the previously programmed settings will be retained.

Connection terminals and associated functions

- ~/- 0 V ac or 0 V dc supply connection
- ~/+ 12 V ac or 12 V dc supply connection
- 14 Common of anti-tamper contact
- 13 NC contact for anti-tamper
- 12 0 V dc green LED
- 11 12 V dc green LED
- 10 0 V dc red LED
- 9 12 V dc red LED
- 8/7 External timer contact input for Day / Night operation
- 6 Relay "B" output common
- 5 Relay "B" NC output
- 4 Relay "B" NO output
- 3 Relay "A" NO output
- 2 Relay "A" output common
- 1 Relay "A" NC output