CBB/PRO100

STAINLESS STEEL KEYPAD CODE 100 CODES, 3 RELAYS
MODIFICATION OF THE CODE BY THE USER

**WIRING DIAGRAM AND INSTRUCTION**

Three groups of relays:
The first group includes 60 user codes from 00 to 59, the second group includes 20 user codes from 60 to 79 and the third group includes 20 user codes from 80 to 99.
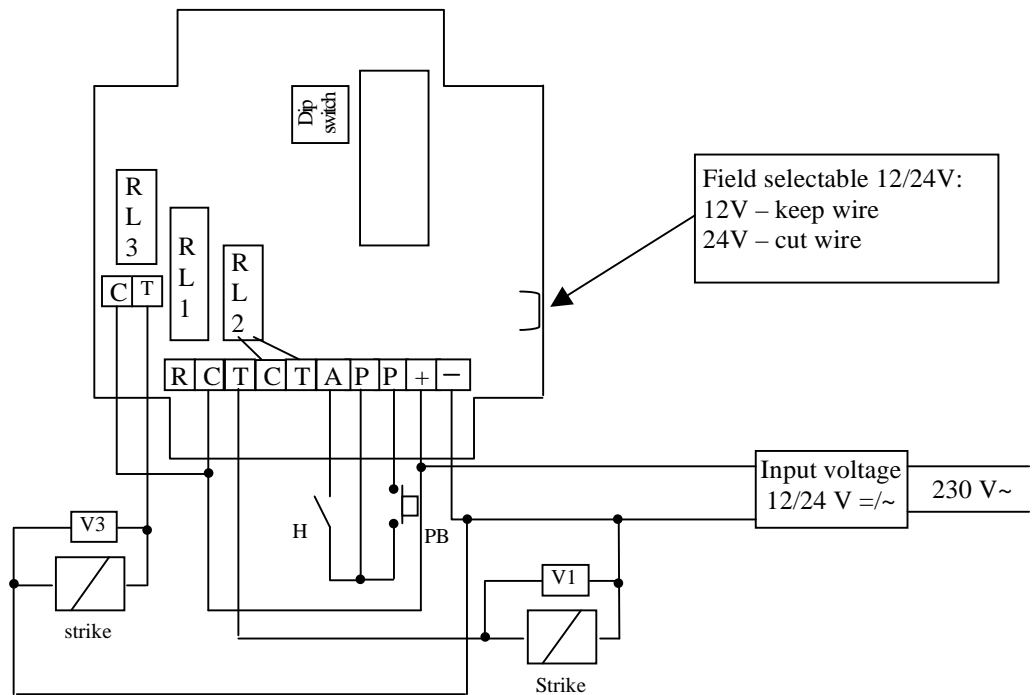
Terminal	fonctions
R	N/C contact
C	Common
T	N/O contact
P – P	Push button PB
P - A	Timer clock contact for using the «0» key as an external push button
+, −	Input voltage 12 or 24 V =/~

This device comes with a varistor.
The varistor must be connected to the strike terminal (electromagnet…) operated by the device.
If this product works with many strikes, each of them should have a varistor.
The varistor controls the overload produced by the strike coil – back emf.
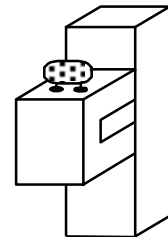
If you are using a « Shear Lock » electromagnetic lock, it is recommended to use a separate power supply than the one connected to the **CBB-PRO100**!

Technical specifications

Input voltage	12 or 24 V = or ~ **(Do not use the latched output in 24V!)**
Outputs	1 relay output N/O & N/C contacts 8 amps@250 V and 2 relay outputs N/O contact 6 amps@250 V
Operating temperature	-20°C to +50°C
User codes	100 programmable user codes (00 to 99)
User modification code	2-digit user modification code
Master code	4 or 5-digit programmable master code
Code length	Dip-switch n° 2 (ON for 4-digit code, OFF for 5-digit code)
Push button	1 Request-to-exit and 1external push button "0" key (controlled by the timer contact)
Front panel	12-digit keypad, 2 LED's

Factory Default values

Time output:	1 second
Key-in keypad and lit delay:	10 seconds
Programming delay:	120 seconds (2 minutes)
User Modification Code:	✳ and # for relay 1
	13 for relay 2
	46 for relay 3

User code format

All the digit keys can be used to program a user code (0 to 9, * and #).
The master code cannot be used as a user code.
The 4-digit code 0000 and the 5-digit code 00000 are used to delete an existing user code and then cannot be used as user codes.

Push buttons

The request-to-exit button activates the relay (the relay can be programmed in momentary or latched time output).

The contact of the timer allows to program the « 0 » key as an external button:
Contact of the timer opened and dip-switch n°3 in position ON   - « 0 » digit external push button,
Contact of the timer closed   - « 0 » in normal mode

Dip-switches

DIP-SWITCH	ON	OFF
1	Programming of the master code enabled	Programming disabled
2	4-digit user code	5-digit user code
3	Programming by the user disabled	Programming enabled
4	Programming by keypad disabled	Programming enabled

Setting a new master code

1. Select the user code length with dipswitch n°2 (ON for a 4-digit code or OFF for a 5-digit code).
2. Put dipswitch #4 ON.
3. The red LED lights on to confirm entry in programming mode.
4. Enter the 4 or 5-digit master code (according to dip-switch n° 2) for a new master code. The red LED lights off during 1 second to confirm that the new master code is accepted.
5. The red LED lights off during 1 second to confirm that the new master code is accepted.
6. Put back dipswitch n° 1 on OFF position to exit from programming mode and go back to standby mode.

   The red LED starts flashing if there is a data computing error.

Setting user codes and time output

1. Put dipswitch n° 4 OFF (The programming from the keypad is enabled).
2. Enter the master code twice. The red LED illuminates to confirm entry in programming mode.
3. Enter the user number (from 00 to 59 to operate relay 1) or (from 60 to 79 to operate relay 2) or (from 80 to 99 to operate relay 3), then the 4 or 5-digit user code (see programming board). The red LED lights off during one second to confirm that the code has been accepted.
4. Enter * 1 (for door release time relay 1), then the time in second – 01 for 1 second up to 99 for 99 seconds. For a latched output enter 00.
5. Enter * 2 (for door release time relay 2), then the time in second – 01 for 1 second up to 99 for 99 seconds. For a latched output enter 00.
6. Enter * 3 (for door release time relay 3), then the time in second – 01 for 1 second up to 99 for 99 seconds. For a latched output enter 00.

   Do not use the latched output in 24V!

   The red LED lights off during 1 second to confirm that the time output has been accepted.

The Sub Master code allows the user to change its own code only without entering in programming mode. For security reasons the code need to be changed periodically. This feature makes it easier and faster to change its code.

7. Enter * 9 (sub master code for user number 00 to 59 for relay 1), then the 2–digit of the new user modification code. The red LED lights off during 1 second to confirm that the user modification code is accepted.
8. Enter * 8 (master code for user number 60 to 79 for relay 2), then the 2 –digit of the new user modification code. The red LED lights off during 1 second to confirm that the user modification code is accepted.
9. Enter * 7 (master code for user number 80 to 99 for relay 3), then the 2 –digit of the new user modification code. The red LED lights off during 1 second to confirm that the user modification code is accepted.
10. Press #. The red LED lights off to confirm that the keypad is back to a standby mode.
11. Put dipswitch n° 4 back ON (to disable programming from keypad).

   The red LED flashes to indicate a data computing error.

In use

When a valid code is entered, the green LED lights on and the relay is activated during the time output that was set (see setting time delay).
If the user code entered belongs to the user number between 00 and 59, relay 1 is activated.
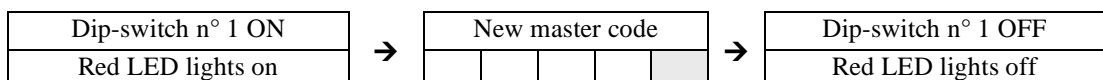If the user code entered belongs to the user number between 60 and 79, relay 2 is activated.
If the user code entered belongs to the user number between 80 and 99, relay 3 is activated.
For a latched output time enter 00. When a valid code is entered the relay stays activated until the code is entered again)
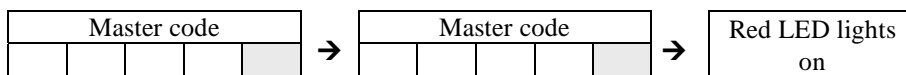
Setting user codes

To set a new master code:

Set the code length by selecting the position on dipswitch n° 2 (ON for a 4-digit code, OFF for a 5-digit code).
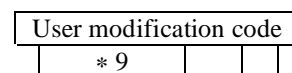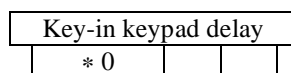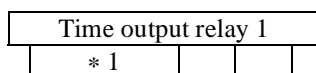
Dip-switch n° 1 ON	→	New master code	→	Dip-switch n° 1 OFF
Red LED lights on				Red LED lights off

• To set new user codes. Put dipswitch No 4 OFF.

Master code	→	Master code	→	Red LED lights on

User number and user codes

00		01		02		03	
04		05		06		07	
08		09		10		11	
12		13		14		15	
16		17		18		19	
20		21		22		23	
24		25		26		27	
28		29		30		31	
32		33		34		35	
36		37		38		39	
40		41		42		43	
44		45		46		47	
48		49		50		51	
52		53		54		55	
56		57		58		59	
60		61		62		63	
64		65		66		67	
68		69		70		71	
72		73		74		75	
76		77		78		79	
80		81		82		83	
84		85		86		87	
88		89		90		91	
92		93		94		95	
96		97		98		99	

Time output relay 1	Key-in keypad delay	User modification code
* 1	* 0	* 9

Time output relay 2		
* 2		

User modification code		
* 8		

Time output relay 3		
* 3		

User modification code		
* 7		

Press # to exit from the programming mode. Red LED lights off indicating that you went back to the operating mode. Put dipswitch No.4 ON.

Operator:		Date:
Building:		
N°:	Street:	
City:		
Other information:		

Changing a user code by the user

Put dipswitch No. 3 ON to disable the modification of a code by the user or put dipswitch OFF to enable the modification of a code by the user.

1. Enter the user code. The green LED lights on and the relay is activated.
2. Enter immediately the 2-digit of user modification code (∗ and # for relay 1 or 13 for relay 2 or 46 for relay 3). The red LED lights on to confirm entry in programming mode.
3. Enter the new user code twice. The red LED lights off to confirm that the new user code is accepted.
4. Enter the new user code for testing it. The relay is activated.

If the new user code is not entered correctly, four beeps sound to confirm that the modification is not done.