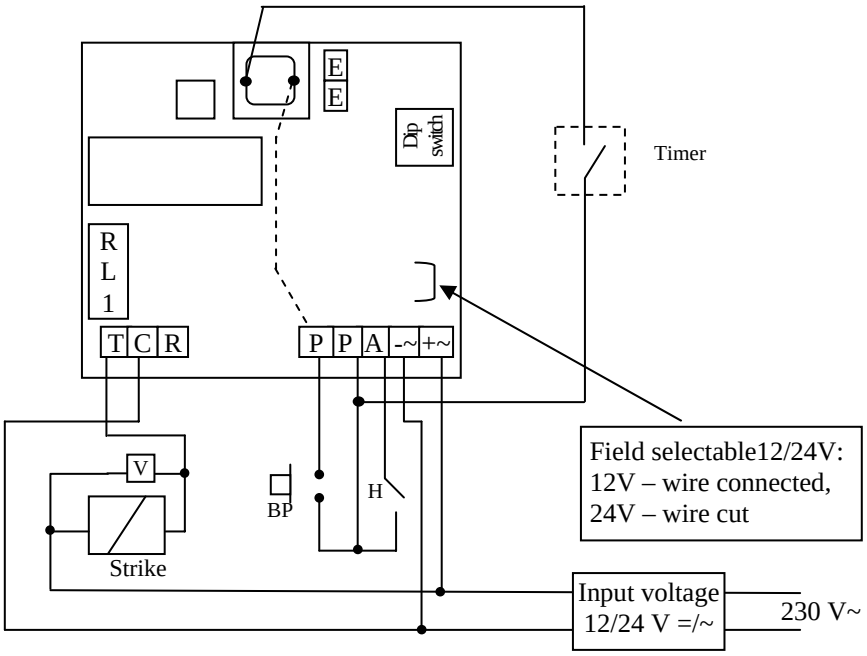
Edition 07/2001

WIRING DIAGRAM AND INSTRUCTION

PRO100

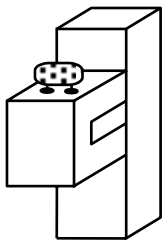
KEYPAD CODE 100 USER CODES, 1 RELAY

Wiring diagram



Terminals	function
R	N/O contact
C	Common contact relay
T	N/C contact
E - E	Front keypad light
P – P	Request-to-exit Push button PB
P - A	Timer clock contact, 0 digit as external push button
+ ~, - ~	Input voltage 12/24 V =/~

This device comes with a varistor. The varistor must be connected to the strike terminal (electromagnet…) operated by the device. If this keypad code is connected to more than one strike, each strike should have a varistor. The varistor controls the overload produced by the strike coil – self-effect.



If you are using a « Shear Lock » electromagnetic lock, it is recommended to use a separate power supply than the one connected to the **PRO100** !

Technical characteristics

Input voltage	12 or 24 V = or ~ **(Do not use the latched output in 24V !)**
Output	1 relay 1 contact N/O & N/C 8A/250 V~
Operating temperature	-20°C à +50°C
User codes	100 programmable user codes (00 à 99)
Code of modification	2-digit programmable 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	Request-to-exit and key «0» as an external push button (control by the contact timer and the dip-switch n° 3)
Keyboard	12-digit keypad, 2 LED's

Default values

Relay time delay : 1 second
Key-in keypad and lit delay: 10 seconds
Programming delay : 120 seconds (2 minutes)
Code of modification: ✱ et # or A et B

User codes

All the digit keys can be used to program a user code (0 à 9, * and # or A and B).
The master code can not 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 can not 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	master code programming enabled	Programming disabled
2	4-digit code	5-digit code
3	Programming forbidden for user	programming authorised
4	Programming from keypad forbidden	programming authorised

Setting a new master code

1. Choose the number of digits to use putting the dip-switch n° 2 in position ON for 4 digit code or on position off for 5-digit code.
2. Put dip-switch n° 1 in position ON.
3. Red LED lights on to confirm that you have entered in programming mode.
4. Enter the 4 or 5 digit code of the new master code.
   Red LED lights off 1 second to indicate the validation of the new master code.
5. Put dip-switch n° 1 on position OFF to exit from the programming mode and come back to the normal mode.

   When the red LED blinks, a mistake of programming occurred.

Setting user codes and time delays

1. Put dip-switch n° 4 OFF (programming from keypad authorised).
2. Enter the master code twice. The red LED lights on .
3. Enter the position code number (from 00 to 99), then the 4 or 5-digit code (see board on the next page to program the codes). The red LED lights off during 1 second confirming the validation of the code.
4. Enter ✱1 or A1 (code relay No. For the relay time delay), then the time in seconds – 01 for 1 second up to 99 for 99 seconds. 00 = relay latched output time.
   Do not use the latched output in 24 V !
   The red LED lights off during 1 second to confirm the validation of the time delay.
5. Enter ✱0 or A0 (code No. for key-in keypad and lit delay), then the time in seconds – 10 for 10 seconds up to 99 for 99 seconds. The red LED lights off during 1 second to confirm the validation of the time delay.
6. Enter ✱9 or A9 (code of modification rank No.), then the 2-digit of the new code of modification. The red LED lights off during 1 second to confirm the validation of the code.
7. Press # to exit from the programming mode at any time. The red LED lights off to confirm that you have come back to the normal mode.
8. Put dip-switch n° 4 ON (Programming from keypad forbidden).

   When the red LED blink, a mistake of programming occurred.
   The master code can not 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 can not be used as a user code.

In Use

1. Each time that a code is recognised, the green LED lights on and the relay is activated during the programmed time delay.
2. To activate several relays with the same code, you have to program this code in several groups.
3. Time delay 00 = latched output time. (when a valid code is entered the relay stays activated until the code is entered again)

Do not use the latched output in 24 V !

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Setting user codes

- To set a new master code:

  Set the code length by selecting the position on dip-switch n° 2 (ON for 4-digit, OFF for 5-digit).

dip-switch No. 1 ON	→	New master code					→	dip-switch No.1 OFF
Red LED lights on								Red LED lights off

- Setting new user codes. Put dip-switch No. 4 OFF.

Master code					→	Master code					→	Red LED lights on

User codes list

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					

Relay time delay			Key-in keypad delay			Code of modification		
∗1 or A1			∗0 or A0			∗9 or A9		

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

Operator:		Date:
Building:		
No. :	Street:	
City:		
Other:		

Changing a user code by the user

Put dip-switch No. 3 ON to disable the modification by the user or put dip-switch OFF to enable the modification by the user.

1. Enter your user code. The green LED lights on and the relay is activated.
2. Enter immediately the 2-digit code of modification by the user (✱ and # or A and B for the first utilisation). The red LED lights on to confirm that you are in programming mode.
3. Enter twice the new user code. The red LED lights off to confirm the validation of the new code.
4. Enter the new user code to test the new code. The green LED lights on and the relay is activated.

If the new user code is not memorised, the red LED lights off without any modification .