



PROMI500 Prox

EMC
COMPLIANT

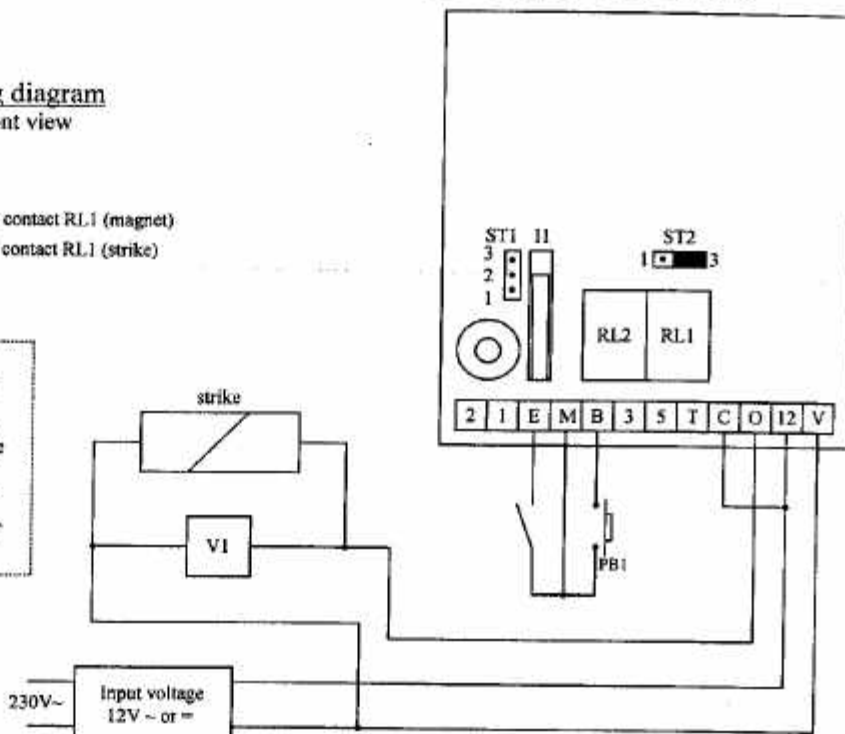
STAND-ALONE PROXIMITY ACCESS CONTROL SYSTEM 500 PROXIMITY BADGES

Wiring diagram
PCB front view

ST2

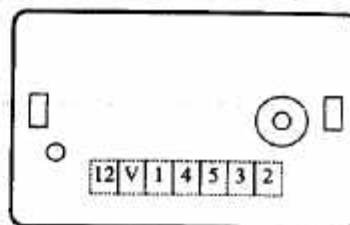
- 1 • 3 N/C contact RL1 (magnet)
1 • 3 N/O contact RL1 (strike)

Warning
Do not use a
switching
power supply
because of the
interference
radiation that
may disturb
the reading of
the badges



B	Request-to-exit PB1	12	Power supply
E	Alarm input	V	Power supply
M	Common PB1, E and 4	1	Data
O	Relay 1 contact	2	Buzzer
C	Common	3	Green LED
T	Relay 2 N/O contact	4	Common M
11	Anti-tamper switch	5	Red LED
V1	Varistor		
ST1	Jumper for reset		
ST2	Jumper for relay 1		
RL1	Door relay		
RL2	Alarm relay		

Auxiliary reader
(terminal connections)



See wiring diagram auxiliary reader

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 – 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 PROMI500.

WIRING DIAGRAM AND INSTRUCTIONS



Technical specifications

Power supply	12 VAC or DC
Outputs	2 relays, N.O & N.C contact , 3A@125V~
Badge capacity	500 proximity badges
Master code	1 programmable code
Master code length	5-digit master code
Inputs	Request-to-exit, 1 door status (N.O or N.C)
Keypad	12-digit keypad with built-in buzzer (audible signal)
Distance between the auxiliary reader and the main reader	Minimum 60 cm Maximum 50 meters (cable 7 x 0.6 mm ²)

Warning Do not use a switching power supply because of the interference radiation that may disturb the reading of the badges.

Default values

Master code:	12345
Relay time delay:	1 second
Keypad time delay:	10 seconds
Alarm time delay:	0 second (without alarm)

Audible signals

1 beep (short)	Key-in on the keypad
1 beep (long)	Validation of data in programming mode: master code, proximity badge or time delay. Or proximity badge accepted
2 beeps (short)	Entering in programming mode or exit from programming mode
4 beeps (short)	Badge n° not accepted or wrong master code or wrong time delay value entered

Visual signals

LED	Operating mode	Programming mode
LED off	Stand-by	
Green	Door relay activated	Badge position empty
Red	Alarm relay activated	Badge position busy
Orange		Programming mode
Orange (blinking)	Stand-by	Data computing error

Request-to-exit

The request-to-exit button activates relay 1 (the output, momentary or latched, and the time delay are programmable). The green LED lights on when the door relay is activated.



Setting a new master code

1. Enter twice the master code (for the first use the master code default value is 12345). 2 beeps and the orange LED lights on confirming that you are in programming mode.
2. Enter * 3 then the 5-digit new master code. The LED goes off during 1 second and an audible beep indicates that the new master code is memorized.
3. Press # to exit from the programming mode. 2 beeps confirm that you went back to the reading mode.

4 beeps indicate a data computing error.

Setting Time delays

Enter twice the master code (for the first use the master code default value is 12345). 2 beeps and the orange LED lights on confirm the entry in programming mode.

Keypad time delay	Enter * 0 then the time in seconds: 10 for 10 seconds up to 99 for 99 seconds. The LED goes off during 1 second and an audible beep indicates the Validation of the time delay.
Door open delay	Enter * 1, then the time in seconds: 01 for 1 second up to 99 for 99 seconds. Enter 00 for a latched output. The LED goes off during 1 second and an audible beep indicates the Validation of the time delay.
Alarm time delay before the alarm relay is activated	Enter * 2, then the time in seconds per 10 seconds: 01 for 10 seconds up to 99 for 990 seconds. Enter 00 to disable the alarm function. The LED goes off during 1 second and an audible beep indicates the Validation of the time delay.

Press # to exit from the programming mode. 2 beeps confirm that you went back to the reading mode.

4 beeps indicate a data computing error.

Setting new proximity badges

1. Enter twice the master code (for the first use the master code default value is 12345). 2 beeps and the orange LED lights on to confirm that you have entered into the programming mode.
2. Enter the badge position number to be programmed (000 to 499). The LED lights off during 1 second and audible beeps are activated.
3. If the green LED is on, present the badge in front of the main reader. The LED lights off during 1 second and an audible beep is emitted. The orange LED lights on to confirm that badge has been memorized.
4. If the red LED is on (this badge position number is busy), cancel the old badge before programming a new one.
5. To exit from the programming mode at any time press #. 2 beeps confirm that you have returned to the reading mode.



Canceling or replacing programmed badges

1. Enter twice the master code (for the first use the master code default value is 12345). 2 beeps and the orange LED lights on to confirm that you have entered into the programming mode.
 2. Enter the badge position number (000 to 499). The LED lights off during 1 second and an audible beep is emitted.
 3. The red LED lights on indicating that the badge position number is busy.
 4. Press the star key twice ** the LED lights off during 1 second and an audible beep is emitted.
 5. The green LED lights on indicating that the badge is cancelled.
 6. Press # to exit from the programming mode.
- OR
7. Present the new badge in front of the main reader. The LED lights off during 1 second and an audible beep is emitted.
 8. The orange LED lights on to indicate that the new badge was saved.
 9. To exit from the programming mode press #. 2 beeps confirm that you have returned to the reading mode.

Reset the master code and the badges

1. Put the jumper ST1 to position 2-3.
 2. The green LED blinks during 5 seconds. An audible beep confirms that the master code has been reset to the default value 12345. The red LED blinks.
 3. Take off the jumper from position 2-3 to go back to a normal mode.
- OR
4. Keep the jumper on position 2-3 to reset all the proximity badges.
 5. The red LED blinks during 5 seconds then stays on during the reset.
 6. When the reset is completed the red LED lights off.
 7. Take off the jumper from position 2-3 to go back to a normal mode.

Alarm function

The tamper switch activates the relay of the alarm when the front panel is removed.
If the alarm delay is different to 00, the alarm door status is enabled :

When the door is opened, without being activated by the request-to-exit button or a badge, the alarm relay is activated after 1 second and the red LED lights on (forced open door).

When the badge or the request-to-exit button are used to open a door, if the door stays open, the open contact will trigger the alarm relay according to the door relay output.

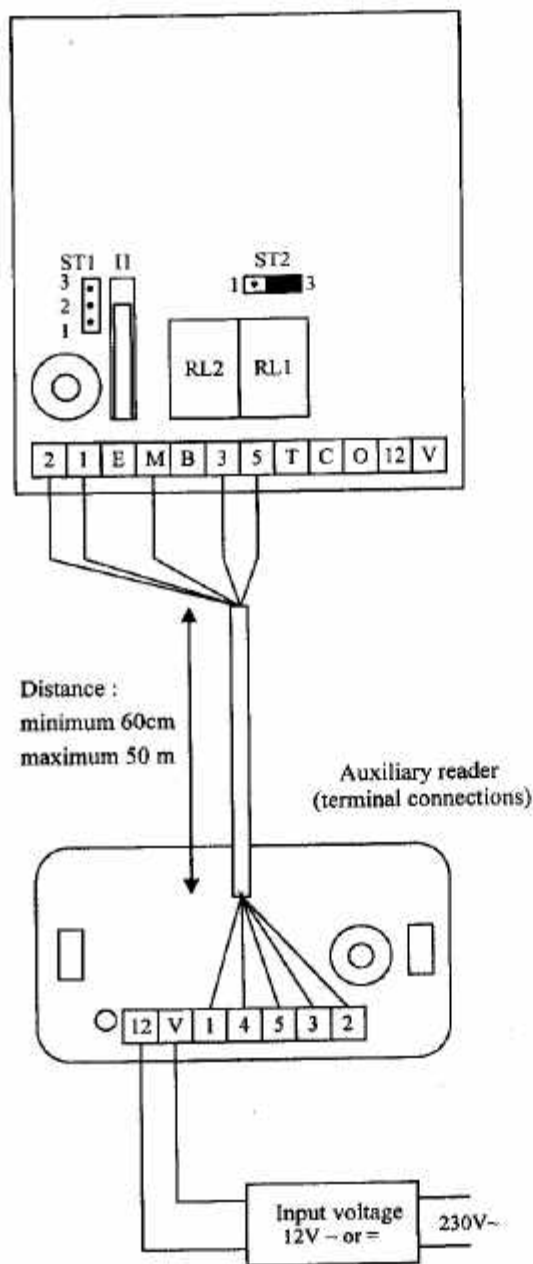
Momentary output – the alarm time delay begin at the end of the door time delay. If the door is maintained open after the alarm time delay, the alarm relay is activated and the red LED lights on. Closing back the door will deactivate the alarm relay and the LED lights off.

Latched output – the alarm time delay begins only when the door stays open after ordering the closing by presenting back the badge or pressing on the request-to-exit button, the alarm relay is activated and the red LED lights on. Closing back the door will deactivate the alarm relay and the LED lights off.

- Note :
1. During an alarm the use of a badge and of the request-to-exit button are enabled.
 2. To disable the alarm function , enter the programming mode, press *2, then 00 and #.



Wiring diagram auxiliary reader



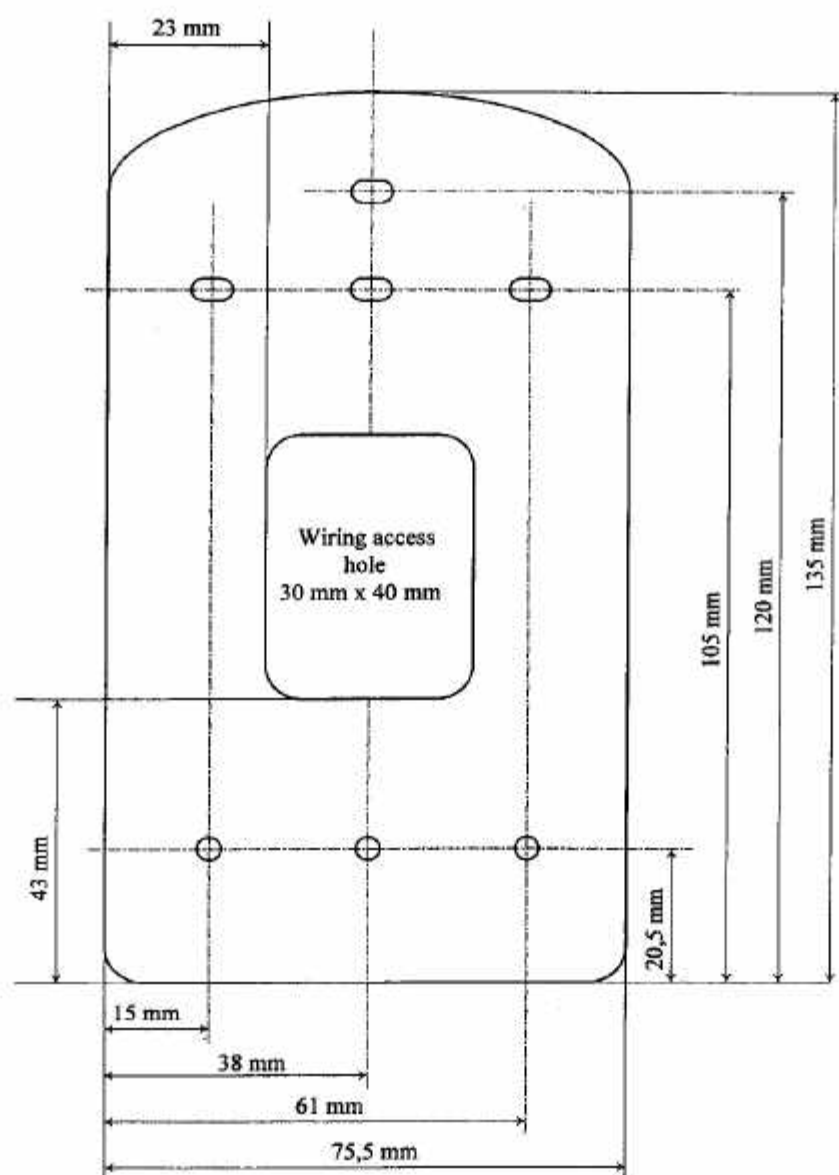
Promi	Reader
12	Power supply
V	Power supply
1	Data
2	Buzzer
3	Green LED
M	Common
5	Red LED

It is recommended to use a separate power supply for the auxiliary reader.



Template

- Promi500





Template

- Auxiliary reader

