VIPER 400

These instructions apply to the following model:
VIPER 400 electronic appliance

CE DECLARATION OF CONFORMITY

Manufacturer: FAAC S.p.A.

Address: Via Benini, 1 - 40069 Zola Predosa BOLOGNA - ITALIA -

Declares that:

The Viper 400 electronic appliance conforms to the essential safety requirements of the following directives:
73/23/EEC and subsequent amendment 93/68/EEC.
89/336/EEC and subsequent amendment 92/31/CEE and 93/68/EEC
Additional information:
These products underwent tests in a typical, uniform configuration (all products manufactured by FAAC S.p.A.).

Bologna, 01, January, 2000

The Managing Director
A. Bassi

1. DESCRIPTION

Introduction: meanings of the following terms as used in these instructions:

gateway-> the transit area

door -> the structure located at the gateway (door, barrier, gate,…) whether automated or not

card -> magnetic card or transponder supplied with a code, which is read by an appropriate reader, or a radiocontrol code which is controlled just like a card by means of the connected radio receiver and radio interface.

Viper is used for simple control of access, combined with one or more card readers.
The card is able to control:
• 1 single gateway at entry/exit
• 2 separate gateways (one at entry and the other at exit)
Only cards and radio codes input in the archive at programming are recognised.

1.1. TECHNICAL SPECIFICATIONS

• Memory capable of recognising a maximum of 400 cards or radio codes
• Facility for connecting directly two external readers
• Settable control of 1 gateway / 2 gateways
• Settable control of electric strike
• Settable control of remote control codes
• 3 displays with 7-segment LEDs for viewing card number and for programming
• 5 micro-pushbuttons for programming
• Inputs:
  2 for external readers (Reader A – Reader B)
  1 for "door status" microswitch (NO/NC)
  1 for door opening push-button (NO)
• Outputs:
  2 with relay (door-opening Reader A – door-opening Reader B)
  1 open-collector (alarm siren)
• Power supply: 12÷24 Vac/dc
• Dimensions: 113 x 90 mm
• Optional external memory card for archive import/export
• Optional external mixer card for connecting two readers to the same Viper input
• Optional external radio interface card for managing remote control codes
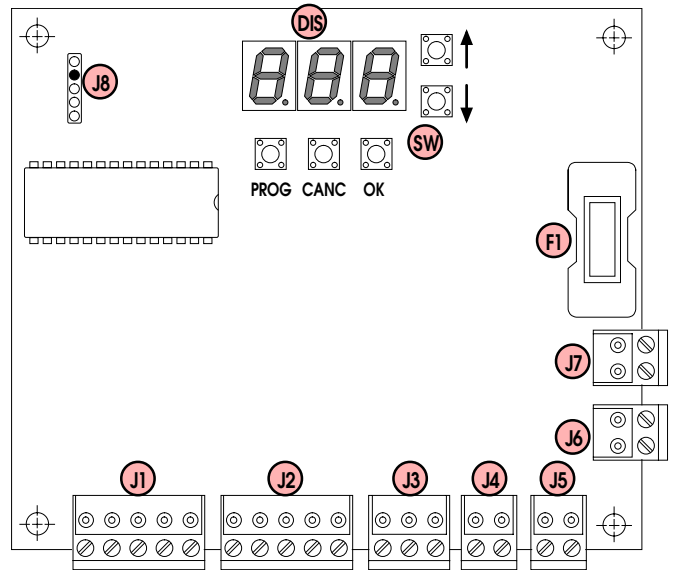
1.2. LAY-OUT OF VIPER CARD

Fig. 1

TABLE 1 VIPER CARD COMPONENTS

|	
F1	Fuse F1 5x20 400mA/250V delayed
DIS	LED display
SW	Programming micro-pushbuttons
J1	A-Reader terminal board (IN-A)
J2	B-Reader terminal board (IN-B)
J3	Inputs terminal board (INPUT)
J4	A-relay output terminal board (OUT-A)
JS	B-relay output terminal board (OUT-B)
J6	Alarm output terminal board for open collector (ALARM)
J7	Power supply terminal board 12V 24Vac/dc (POWER)
J8	Connector for external memory card (EXT MEM)

2. ELECTRICAL CONNECTIONS
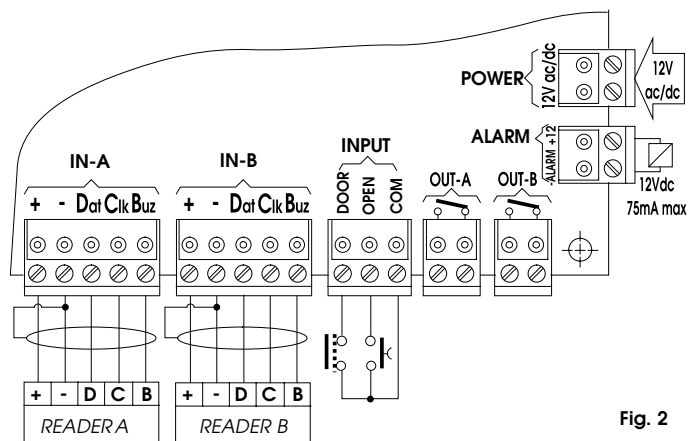
Fig. 2

To avoid induced noise, separate the card connection cables from any 230V~ power cables and use separate sheaths. To connect the readers (max distance 100m), use a 5x0.5 shielded cable, connecting the shield to the power negative (-) pole from the equipment side only.

3. DESCRIPTION OF CONNECTIONS

3.1. TERMINAL BOARDS J1 (IN-A) - J2 (IN-B)

Magnetic or passive card readers equipped with a Magnetic Stripe output can be connected indiscriminately.
The terminal boards are designed to accept connection of an optional mixer card (to double the readers that can be connected to the input), a radio interface (to manage radiocontrols) and, subject to appropriate programming, FAAC active readers.

3.2. TERMINAL BOARD J3 (INPUT)

Use free contacts only, referring to the "Com" terminal.
• **DOOR = "Door Status" sensor**
This input is provided for connecting a door status detection sensor.
This connection is not essential, but if used, it enables generating an alarm on the "ALARM" output, to warn that the door was forced, opened without reading a card, or left open.
Reading of a valid card or pressing the door opening push-button will disable the door status input for the time set during programming (default: 15 sec.).
This means that:
▷ If the door was opened without a valid card being read or without the door opening push-button being pressed, the "ALARM" output is activated for the time set during programming (default: 30 sec.).
▷ If a valid card is read or the door opening push-button is pressed, 15 sec. are available (if default time is set) for opening the door, entering and re-closing it.
If the door is open when disable time elapses, the "ALARM" output is activated for the programmed time setting.
▷ If the door is closed before disable time elapses, door status control is, in any case, re-enabled.
▷ It can only be used for "Single gateway control". As concerns "Double gateway control", it can be used but only with reference to the gateway controlled by the A-reader and to the door opening push-button if any.
▷ The input default logic is as follows:
door closed -> open contact (NO)
The logic can be inverted when programming (according to type of sensor):
door closed -> closed contact (NC).
▷ If the logic is inverted, by putting it in NC status, without connecting the sensor, alarms are generated whenever the card is powered-up or reset (e.g.: returning to operating mode at end of programming).
• **OPEN = Door opening push-button**
This input is provided for connecting a pulse generator with NO contact, which, if activated:
▷ For "Single gateway control", activates both outputs (OUT-A and OUT-B) with the times of a valid card.
▷ For "Double gateway control", activates OUT-A output only with the time of a valid card.

3.3. TERMINAL BOARDS J4 (OUT-A) - J5 (OUT-B)

Relay outputs with free contact timed independently for controlling one or two gateways.

3.4. TERMINAL BOARD J6 (ALARM)

Open-collector output for signalling alarm condition.
Interface the alarm device with a relay: 12Vdc 75mA max..

3.5. TERMINAL BOARD J7 (POWER)

Terminal board for connecting 12÷24V ac/dc power supply.
You can use either of the two terminals with both direct and alternate current.

3.6. CONNECTOR J8 (EXT MEM)

A connector for connecting the non-volatile external memory card (optional) for card archive import/export purposes.
Switch off power before fitting or removing the card.

Data are exported to the external memory in order to have a back-up copy or to copy the archive on another Viper (see programming menu #5).

4. OPERATING MODES

Viper can function in one of the following operating modes:
• Standard operating mode
• Secret code setting mode
• Programming mode

4.1. STANDARD OPERATING MODE

When the three displays are OFF and only the right-hand point flashes every second, Viper is in standard operating mode – i.e. it is ready to enable door opening if the read cards are stored in the memory.
For inputting cards in the memory, see function "*I_I*" .

4.2. SECRET CODE SETTING MODE

A secret code can be activated to access the programming mode. The secret code consists of 3 two-digit numbers (from 00 to 99) totalling six digits (**the default number is 01-02-03**).
When the function is active, the code is requested in three stages; for reasons of security, any errors are signalled only after all three numbers have been input.

Fig. 3

The secret code can be activated/de-activated and, if active, can be modified.
To activate/de-activate/modify the secret code:
▷ You must be in standard operating mode
▷ Press keys ↑+↓ simultaneously and release them.
▷ If the secret code was activated previously, you are prompted to input it to proceed:
• "_*00*" is shown; set the 1st secret code number (default: 01), using ↑or↓ and press **OK**
• "_*00*" is shown; set the 2nd secret code number (default: 02), using ↑or↓ and press **OK**
• "_*00*" is shown; set the 3rd secret code number (default: 03), using ↑or↓ and press **OK**
▷ If the secret code was not activated previously, or if it was input correctly when prompted, a number appears on the right-hand display indicating the current setting.
The associations are as follows:
"_*0*" steady = secret code de-activated (default)
"_*I*" flashing = secret code activated
To change the setting, use ↑or↓ and then press **OK**.
▷ By activating function ("__*I*") you can confirm or modify the currently set code:
• the 1st number appears.; use ↑or↓ to modify and/or press **OK**
• the 2nd number appears.; use ↑or↓ to modify and/or press **OK**
• the 3rd number appears.; use ↑or↓ to modify and/or press **OK**
When this is completed, you return to standard operating mode.
▷ By de-activating function ("__*0*") you return to standard operating mode.
▷ If you press the **PROG** key at any time, you return to standard operating mode; settings input up to that time remain valid.
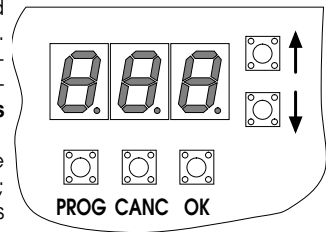▷ If the secret code is lost, the " total reset" function comes into operation (see paragraph 6).

4.3. PROGRAMMING MODE

This mode contains all the Viper configuration functions.
Viper programming procedure:
▷ You must be in standard operating mode
▷ Press the **PROG** key.
▷ According to the number shown, you have either directly accessed programming mode or you have to input the secret code:
• if "_*I*_" is shown, you are already in programming mode (menu 1).
• if "_*00*" is shown, the secret code is necessary.

▷ Procedure for inputting the secret code (if the function was activated):
• "*_00*" is shown; set the 1st secret code number, using ↑or↓and press **OK;**
• "*_00*" is shown; set the 2nd secret code number, using ↑or↓and press **OK;**
• "*_00*" is shown; set the 3rd secret code number, using ↑or↓and press **OK;**
If the input code is correct, "*_I_*" is shown indicating that you have accessed the programming mode, otherwise you return to standard operating mode.

▷ When "*_I_*" is shown, Viper is in programming mode and suggests the first of a set of menus.
Available actions:
• scan to increase with key ↑ ;
• scan to reduce with key ↓ ;
• select menu with key **OK** ;
• exit programming with key **PROG** .

▷ If you select a menu, you access a sub-menu, and the number shown is the association between the menu number and the sub-menu number.
The menus are shown on the left display (menu) and on the right display (sub-menu), while the central display stays OFF, e.g.:
"*3_1*" indicates menu #3 – sub-menu #1.
Available actions were described in the previous point.

▷ List of available functions:

TABLE 2 VIPER FUNCTIONS LIST

MENU		SUB-MENU	D
1 Card Management	1_1	Card storage	
	1_2	Card deletion	
	1_3	Card modification	
2 Operational settings	2_1	0 = 1 Gateway control	☆
		1 = 2 Gateway control	
	2_2	0 = Swipe magnetic reader	★
		1 = 60% insertion magnetic reader	
	2_3	0 = Electric strike control disabled	★
		1 = Electric strike control enabled	
	2_4	0 = Door status input NO	★
		1 = Door status input NC	
	2_5	0 = Magnetic Stripe A-Reader	★
		1 = A-Reader active	
	2_6	0 = Magnetic Stripe B-Reader	★
		1 = B-Reader active	
	2_7	0 = Radio function disabled	★
		1 = Radio function active	
3 Time Setting	3_1	Output OUT-A activation time	1
	3_2	Output OUT-B activation time	1
	3_3	ALARM output activation time	30
	3_4	Ignore door status time	15
	3_5	A-Reader ignore card time	0
	3_6	B-Reader ignore card time	0
4 Outputs activation	4_1	Output OUT-A activation	
	4_2	Output OUT-B activation	
	4_3	ALARM outputs activation	
5 Card archive Import/Export	5_1	0 = exit without executing	★
		1 = execute card archive Export	
	5_2	0 = exit without executing	★
		1 = execute card archive Import	

➪ *Column "D" indicates default settings*

5. EXPLANATION OF SUB-MENU

_ I _	CARD MANAGEMENT

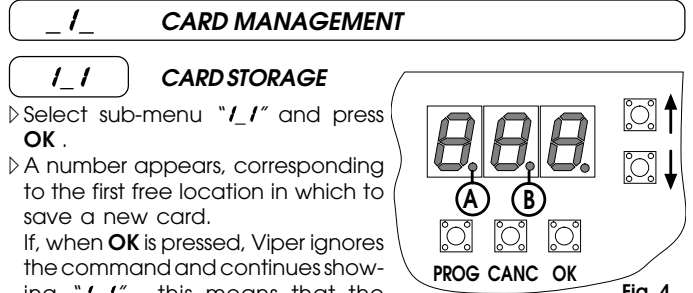| I_I	CARD STORAGE

▷ Select sub-menu "*I_I*" and press **OK** .
▷ A number appears, corresponding to the first free location in which to save a new card.
If, when **OK** is pressed, Viper ignores the command and continues showing "*I_I*" , this means that the memory locations are all already occupied and a free one cannot be suggested.

Fig. 4

▷ Use keys ↑and↓ to cycle-scan free locations only (hold down one or the other to increase scanning speed).
▷ When you have chosen the location, if prompted, set the card-enable **(see function "*2_7*")**.
• the lighted points of the left (A) and central (B) display are associated with activation of outputs OUT-A and OUT-B respectively.
• If you press the **CANC** key, the following sequence is shown cyclically:
-A only lighted, B only lighted, A+B off, A+B lighted.

▷ Have the card read by a connected reader (you can use either reader A or reader B) or have the radio code by the connected receiver and radio interface: the card (or code) is assigned to the location displayed at time of reading.
This location (which is shown on the display when the card is read in standard operating mode) is now occupied, and the system moves automatically to the next free location.

▷ Repeat this procedure for every card (or code) to be saved, and when you have finished, use the **PROG** key or **OK** to return to the menu selection option.

Notes:
Saving is done through a self-learning process, therefore, the cards and coded radiocontrols must be physically present.
Viper can store a maximum of 400 cards/codes.
Pre-stored cards and codes are ignored.
Disabling is possible at all times (A+B LEDs off), even if the radio function is not set: this means that radiocontrols/cards not recognised by Viper are stored, but these may be enabled later (function "*I_3*").
For ease of future management, we advise you to keep a note of the following data:
card owner -> card # -> location.

I_2	CARD DELETION

▷ Select sub-menu "*I_2*" and press **OK** .
▷ A number appears corresponding to the first occupied location.
If, by pressing **OK**, Viper ignores the command and continues displaying "*I_2*" , this means that no card is stored and an occupied location cannot be suggested.

▷ Use keys ↑and↓ to cycle-scan occupied locations only (hold down one or the other to increase scanning speed).
The associated location is also shown for each location, through the status of the two A and B LEDs in fig.4 **(see function "*2_7*")**.

▷ When you have chosen the location, press the **CANC** key to delete the card or radio code.

▷ Repeat this procedure for every card or code to be deleted, and when you have finished, use the **PROG** key or **OK** to return to the menu selection option.

Notes:
Deletion is effected without cards being physically present, but the location used for storing the card must be known.
After being freed, the location is once again available for a new storage operation.

I_3	CARD MODIFICATION

▷ Select sub-menu "*I_I*" and press **OK** .
▷ A number appears, corresponding to the first occupied location.
▷ If, when **OK** is pressed, Viper ignores the command and continues showing "*I_3*" , this means that no card is stored and an occupied location cannot be suggested.

▷ Use keys ↑and↓ to cycle-scan occupied locations only (hold down one or the other to increase scanning speed).
The associated location is shown for each location, through the status of the two A and B LEDs in fig.4 **(see function "2_7")**.

▷ When you have chosen the location, press the **CANC** key, and the following sequence is shown cyclically:
-A only lighted, B only lighted, A+B off, A+B lighted.

▷ Press the **OK** key to confirm and go on to the next location or press **PROG** to confirm and return to menu selection.
Press ↑or↓ not to confirm and go on to the next location.

_2_ OPERATIONAL SETTINGS

2_1 GATEWAY MANAGEMENT

▷ Select sub-menu "2_1" and press **OK** .
▷ A number appears corresponding to the current setting:
"_0" steady = single gateway management (default)
"_1" flashing = double gateway management
To change the setting, use ↑or↓ and then press **OK** (to exit without modifying, press the **PROG** key).

Single gateway management :
A reader (e.g. IN-A) is installed at entry and a reader (e.g. IN-B) at exit by the gateway to be activated (e.g. the door itself).
Furthermore, an internal door opening push-button (connected to the Open entry) can be used in addition to or instead of the exit reader.
If a valid card is read by any of the readers, or if the door opening push-button is pressed, both the relay outputs (OUT-A and OUT-B) are activated, each one for the set time.

Double gateway management :
A reader (e.g. IN-A) is installed by the entry gateway and a reader (e.g. IN-B) by the exit gateway (e.g. two barriers).
If a valid card is read by reader A, or if the internal door opening push-button (connected to the Open entry), if any, is pressed, relay output OUT-A is activated for the set time.
If a valid card is read by reader B, relay output OUT-B is activated for the set time.

If you are using radiocontrols, please consult function "2_7".

2_2 TYPE OF MAGNETIC READER

▷ Select sub-menu "2_2" and press **OK** .
▷ A number appears corresponding to the current setting:
"_0" steady = swipe readers A and B (default)
"_1" flashing = 60% insertion readers A and B
To change the setting , use ↑or↓ and then press **OK** (to exit without modifying, press the **PROG** key).

Swipe readers :
These readers are able to read the entire code in the card, irrespective of length provided it is in the range of 1 to 37 characters.
Input this setting in the case of:
•Readers of magnetic swipe cards
•Proximity card readers with "Magnetic Stripe" output.

60% insertion readers :
These readers are able to read the code in the card, usually up to the 19th-21st character.
Input this setting in the case of:
•Readers of insertion magnetic cards with 60% reading capability if using cards with longer codes.
In this case, all cards must differ from each other in the first 17 characters of the code.

Notes:
This setting applies only to readers with "Magnetic Stripe" output (see functions "2_5" and "2_6").
If you are using insertion readers (irrespective of the setting) we advise you to input an "ignore card time" (see function "3_5" and "3_6") to avoid double reads, because a card is typically read when being inserted and then when being extracted.

2_3 ELECTRIC STRIKE MANAGEMENT

▷ Select sub-menu "2_3" and press **OK** .
▷ A number appears corresponding to the current setting:
"_0" steady = Electric strike management disabled(default)
"_1" flashing = Electric strike management enabled

To change the setting , use ↑or↓ and then press **OK** (to exit without modifying, press the **PROG** key).

Electric strike management enabled
When a valid card is read or when the door opening push-button is pressed, Viper monitors door status (entry Door):
•When the door is opened (sensor tripped), the OUT-A relay output is de-activated after two seconds, irrespective of set activation time.
•When the door is closed (tripped sensor), the OUT-A relay output is immediately de-activated (if it was already de-activated, it remains in that state), and door status control is enabled (even if the ignore door status time has not elapsed yet), to generate alarms in the event of unauthorised opening.
Therefore, when the door is closed again, the electric strike is not powered, thus preventing opening if no card is read.

Electric strike management disabled
The OUT-A relay output remains active for the entire set time.

Notes:
This function makes it possible to control an electric strike connected to the OUT-A relay output.
The setting has an effect only on activation of OUT-A relay output.

2_4 DOOR STATUS NO/NC INPUT

▷ Select sub-menu "2_4" and press **OK** .
▷ A number appears corresponding to the current setting:
"_0" steady = NO contact (default)
"_1" flashing = NC contact
To change the setting , use ↑or↓ and then press **OK** (to exit without modifying, press the **PROG** key).

NO Contact:
Set this if the sensor is as follows:
door closed -> open contact
If door status control is not required, input this setting and do not connect any sensor.

NC Contact:
Set this if the sensor is as follows:
door closed -> closed contact
With this setting, a sensor must be connected to prevent an alarm at power-up.

2_5 A-READER (IN-A)

▷ Select sub-menu "2_5" and press **OK** .
▷ A number appears corresponding to the current setting:
"_0" steady = "Magnetic Stripe" A-reader (default)
"_1" flashing = Active A-reader.
To change the setting , use ↑or↓ and then press **OK** (to exit without modifying, press the **PROG** key).

"Magnetic Stripe" type:
Set this for readers with a "Magnetic Stripe" output connected to the IN-A input, e.g.:
•Swipe or insertion magnetic card readers.
•Passive proximity card readers

Active type:
Set this for FAAC readers of active cards.

2_6 B-READER (IN-B)

▷ Select sub-menu "2_6" and press **OK** .
▷ A number appears corresponding to the current setting:
"_0" steady = Magnetic Stripe" B-reader (default)
"_1" flashing = Active B-reader.
To change the setting , use ↑or↓ and then press **OK** (to exit without modifying, press the **PROG** key).

"Magnetic Stripe type":
Set this for readers with a "Magnetic Stripe" output connected to the IN-B input, e.g.:
•Swipe or insertion magnetic card readers.
•Passive proximity card readers

Active type:
Set this for FAAC readers of active cards.

2_7 RADIO FUNCTION

▷ Select sub-menu "2_7" and press **OK** .
▷ A number appears corresponding to the current setting:
"_0" steady = "radio function" disabled (default)
"_1" flashing = "radio function" active

To change the setting , use ↑or↓ and then press **OK** (to exit without modifying, press the **PROG** key).

Radio function disabled:
Viper performs in the standard manner described in "*2_1*"

Radio function activated:
This function is effective only for double gateway management and is intended for use with FAAC model SLP self-learning radiocontrol.

The specific radio interface connected to an input (either IN-A or IN-B will do) must be used to convert radio codes into Magnetic Stripe outputs (Viper is able to recognise these).

In double gateways, a valid card will of course activate the relay output corresponding to the input used for the specific reading operation .

If using radiocontrol, as the code always travels from the same input (to which the radio interface is connected), activation of a defined relay output must be associated with each radio code when read, irrespective of the input used for reading.

To enable this function, the output to be activated must be set for each card, and this setting applies both to storage ("*1_1*") and modification ("*1_3*"): LEDs A and B of fig.4, associated with outputs A and B indicate the enabling of each card as shown in table 3.

TABLE 3 THE EFFECT OF CARD READING WITH RESPECT TO ENABLING

LED A	LED B	1 GATEWAY	2 GATEWAYS	1 GATEWAY + Radio func.	2 GATEWAYS + Radio func.
●	●	OUT-A+OUT-B	IN-A ⇢ OUT-A IN-B ⇢ OUT-B	OUT-A+OUT-B	IN-A ⇢ OUT-A IN-B ⇢ OUT-B
●	○	OUT-A+OUT-B	IN-A ⇢ OUT-A IN-B ⇢ OUT-B	OUT-A+OUT-B	OUT-A
○	●	OUT-A+OUT-B	IN-A ⇢ OUT-A IN-B ⇢ OUT-B	OUT-A+OUT-B	OUT-B
○	○	/	/	/	/

● = LED lighted   ○ = LED off

Notes:
• a card can always be disabled by setting (○ ○)
• a card can always be re-enabled by setting (● ●)
• in single gateway management, if a card is not disabled, it will still activate both outputs
• in double gateway management with the radiocontrol function disabled, if the card is not disabled, the output corresponding to the reader will be activated (IN-A ⇢ OUT-A) (IN-B ⇢ OUT-B)
• in double gateway management with radiocontrol function activated, if the card is not disabled:
  -the output corresponding to the reader will be activated if (● ●)
  -the OUT-A output will, in any event, be activated if (● ○), even if reading is performed on IN-B
  -the OUT-B output will, in any event, be activated if (○ ●), even if reading is performed on IN-A

Example:
Let's assume a real case consisting of a radio receiver with radio interface, a 2-channel radiocontrol, a mixer card, two card readers, a Viper with OUT-A as input and OUT-B as output, standard programming would be as follows:
• Viper set for double gateway management + activated radio function
• Traditional cards set to (● ●).
• Cards associated with the radiocontrol key enabling entry, set to (● ○).
• Cards associated with the radiocontrol key enabling exit, set to (○ ●).
• Disabled cards set to (○ ○), both traditional type and remote control codes.

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_3_   TIME SETTING

3_1   OUT-A OUTPUT ACTIVATION TIME

▷ Select sub-menu "*3_1*" and press **OK** .
▷ A number appears corresponding to the current value (default: 1 second).
By using keys ↑and↓ you can increase or reduce the value from 0 to 255 seconds (hold one or the other down to increase

scanning speed) and then press **OK** to confirm (to exit without modifying, press the **PROG** key).

3_2   OUT-B OUTPUT ACTIVATION TIME

▷ Select sub-menu "*3_2*" and press **OK** .
▷ A number appears corresponding to the current value (default 1 second).
By using keys ↑and↓ you can increase or reduce the value from 0 to 255 seconds (hold one or the other down to increase scanning speed) and then press **OK** to confirm (to exit without modifying, press the **PROG** key).

3_3   ALARM OUTPUT ACTIVATION TIME

▷ Select sub-menu "*3_3*" and press **OK** .
▷ A number appears corresponding to the current setting (default: 30 seconds).
By using keys ↑and↓ you can increase or reduce the val ue from 0 to 255 seconds (hold one or the other down to increase scanning speed) and then press **OK** to confirm (to exit without modifying, press the **PROG** key).

3_4   DOOR STATUS IGNORE TIME

▷ Select sub-menu "*3_4*" and press **OK** .
▷ A number appears corresponding to the current setting (default 15 seconds).
By using keys ↑and↓ you can increase or reduce the value from 0 to 255 seconds (hold one or the other down to increase scanning speed) and then press **OK** to confirm (to exit without modifying, press the **PROG** key).

3_5   CARD IGNORE TIME FOR A-READER (IN-A)

▷ Select sub-menu "*3_5*" and press **OK** .
▷ A number appears corresponding to the current setting (default: 0 seconds).
By using keys ↑and↓ you can increase or reduce the value from 0 to 255 seconds (hold one or the other down to increase scanning speed) and then press **OK** to confirm (to exit without modifying, press the **PROG** key).

Notes:
If a time other than zero is set, Viper stores the last card read by the A-reader, ignoring the successive readings of the same card occurring on the same reader within that time.
However, a card other than the previous one is read, thus becoming the new card to be ignored if re-read within the set time.
This parameter should be used in the following cases:
• Magnetic insertion readers (set 5-10 sec) to prevent a second reading when the card is extracted.
• Readers active on vehicle passageways in which several reads of the same card can occur during transit.

3_6   CARD IGNORE TIME FOR B-READER (IN-B)

▷ Select sub-menu "*3_6*" and press **OK** .
▷ A number appears corresponding to the current setting (default: 0 seconds).
By using keys ↑and↓ you can increase or reduce the value from 0 to 255 seconds (hold one or the other down to increase scanning speed) and then press **OK** to confirm (to exit without modifying, press the **PROG** key).

Notes:
The same considerations under the previous function "*3_5*" apply, but refer to the B-reader.

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_4_   OUTPUT ACTIVATION

4_1   OUT-A OUTPUT ACTIVATION

▷ Select sub-menu "*4_1*" and press **OK** .
The OUT-A output is activated for the same time as for a valid card.
▷ The remaining time is shown during activation.
To finish activation and exit before the entire time has elapsed, press key **PROG** or **OK**.

4_2   OUT-B OUTPUT ACTIVATION

▷ Select sub-menu "*4_2*" and press **OK** .
The OUT-B output is activated for the same time as for a valid card.
▷ The remaining time is shown during activation.
To finish activation and exit before the entire time has elapsed, press key **PROG** or **OK**

4_3   ALARM OUTPUT ACTIVATION

▷ Select sub-menu "*4_3*" and press **OK** .
The ALARM exit is activated for the same time as for an alarm situation.
▷ The remaining time is shown during activation.
To finish activation and exit before the entire time has elapsed, press key **PROG** or **OK**

_5_   CARD ARCHIVE IMPORT/EXPORT

Card and radio code data can be copied from Viper to the optional external memory card (Export), or vice versa (Import).
Exporting the archive serves to provide a back-up copy or to rapidly update another Viper.
Importing makes it possible to load a previously exported archive on Viper.
To ensure correct Import/Export operations, the external memory mini-card must be present.

How to connect the mini-card:
•Switch off Viper
•Insert the mini-card in the 5-pole J8 connector (one of the poles is obstructed to prevent inverting polarity during installation)
•Power up Viper and carry out the operation.
•When you have finished, the mini-card may be removed (after cutting power to Viper) and stored separately.

Fig. 3
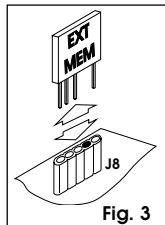
Notes:
Importing without the mini-card has no effect, because Viper is aware the card is not connected.
If you import with an empty card (i.e. it has not received any previous imports), cards and radio codes stored on Viper will be deleted.
Viper configuration data (settings, times, ….)are not exported/imported, but only data concerning cards, locations, and enabling operations.

5_1   EXPORT

▷ Select sub-menu "*5_1*" and press **OK** .
▷ "*__0*' steady appears on the right-hand display.
▷ To select the setting use ↑or↓ and then press **OK**.
Available associations :
 "*__0*' steady = to exit without executing export (default)
 "*__1*" flashing = to execute export
To exit without confirming, press **PROG**.

5_2   IMPORT

▷ Select sub-menu "*5_2*" and press **OK** .
▷ "*__0*' steady appears on the right-hand display.
▷ To select the setting use ↑or↓ and then press **OK**.
Available associations:
 "*__0*' steady = to exit without executing import (default)
 "*__1*" flashing = to execute import
To exit without confirming, press **PROG**.

6.   TOTAL RESET

➲This procedure restores programming parameters to default values and deletes the card archive from the memory.
Total reset procedure:
▷ Switch off Viper.
▷ Simultaneously press keys **PROG** + **OK**.
▷ Power up Viper.
▷ Do not release the two keys while the display shows the first count from 009 to 000.
▷ Release the two keys while the display shows the second count from 005 to 000.

▷ "*__0*' steady is shown on the right-hand display.
▷ To select the setting use ↑or↓ and then press **OK**.
Available associations :
 "*__0*' steady = to exit without executing reset (default)
 "*__1*" flashing = to execute reset
To exit without confirming, press **PROG** .
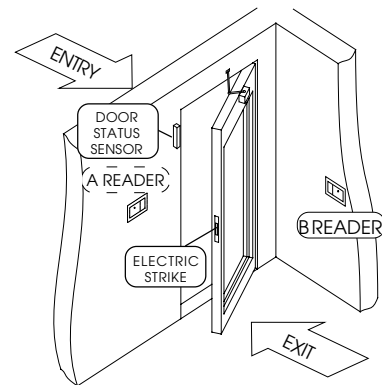
7.   SOFTWARE VERSION

The number shown for one second at power-up and before returning to standard operating mode is the software version of Viper card.

8. TYPICAL INSTALLATION

8.1.   DOUBLE VEHICLE PASSAGEWAY
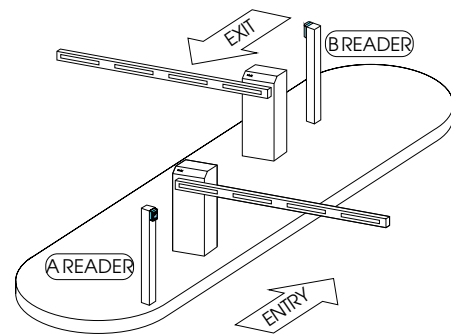
8.2.   PEDESTRIAN SINGLE MANUAL GATEWAY

8.3.   PEDESTRIAN SINGLE AUTOMATED GATEWAY