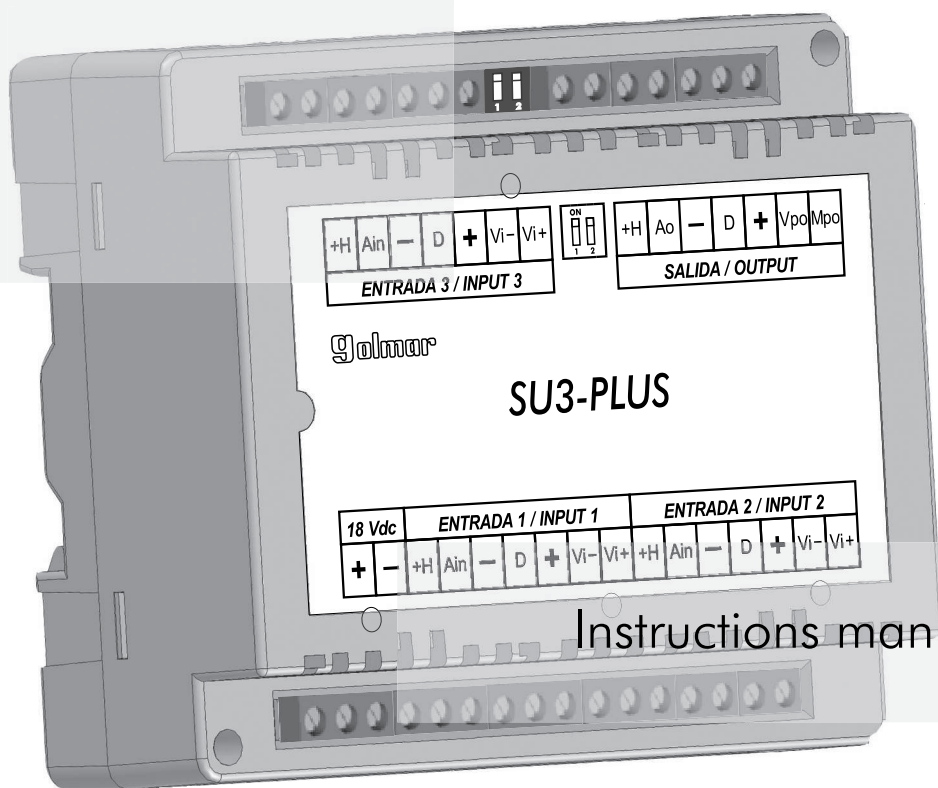


# Switch Unit

## ***SU3-PLUS***



Instructions manual

First of all we would like to thank and congratulate you for the purchase of this product manufactured by Golmar.

The commitment to reach the satisfaction of our customers is stated through the ISO-9001 certification and for the manufacturing of products like this one.

Its advanced technology and exacting quality control will do that customers and users enjoy with the legion of features this system offers. To obtain the maximum profit of these features and a properly wired installation, we kindly recommend you to expend a few minutes of your time to read this manual.

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## STARTING RECOMMENDATIONS

- ☞ The installation and handling of this equipment must be performed by **authorised personnel**.
- ☞ Install or modify the equipment **without the power connected**.
- ☞ Do not use excessive force when tightening the switch unit connection block screws.
- ☞ The entire installation must be at least **40 cm.** away from any **other installation**.
- ☞ Before connecting the system, check the connections between door panel, SU3-PLUS switch unit, distributors, monitors, telephones and the power supply connection.
- ☞ When starting the equipment for the first time, or after a modification, the system will remain inactive for around 30 seconds due to the initial busy channel time.
- ☞ Do always follow the enclosed information.

- ❏ Install or modify the equipment **without the power connected**.
- ❏ The installation and handling of these equipments must be performed by **authorised personnel**.
- ❏ The entire installation must be at least **40 cm.** away from any **other installation**.
- ❏ Do not use excessive force when tightening the connector screws.
- ❏ Install the switch unit in a dry and protected place without risk of drip or water projections.
- ❏ Avoid to place it near to heating sources, dusty locations or humid environments.
- ❏ Do not block ventilation holes of the switch unit so that air can circulate freely.
- ❏ To avoid damage, the switch unit has to be firmly fixed.

## SYSTEM CHARACTERISTICS

- ❏ Switch unit for the **Plus / Uno** video door panel system (with "+H" output).
- ❏ Up to 3 doors panels per switch unit.
- ❏ Up to 2 doors panels per switch unit in daisy chain.
- ❏ Unlimited number of switch unit in daisy chain.
- ❏ No connect any element between the door panel and the switch unit.
- ❏ Distributors, monitors, telephones, porter's exchanges and digital repeater will be connected to the output of the switching unit.
- ❏ Maximum distance between the door panel and switch unit: 300m.
- ❏ Maximum distance between power supply and switch unit: 3m., with a wire section of 1.5 mm<sup>2</sup> (install in the same cabinet).
- ❏ Switch unit needs a power supply (FA-Plus/C or FA-Plus).
- ❏ Door panels need FA-Plus/C power supply with:
  - ☞ External lock release push button.
  - ☞ EL502 dc/ac converter module to connect a.c lock release (only Stadio door panel).
- ❏ Configuration dip switch (for systems with general door panels).
- ❏ Status led for each input to indicate if it is connected to monitor Bus.

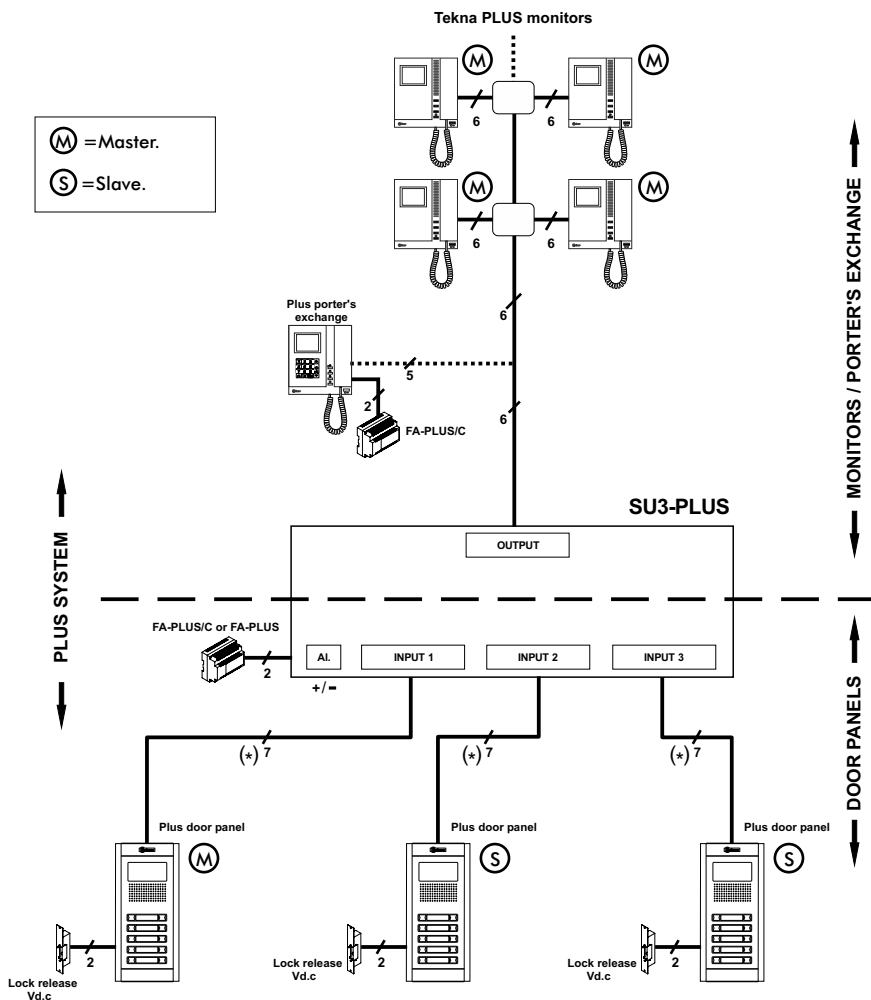
# OPERATION MODES

## Video installation with 1 switch unit (door panels without power supplies).

Permits the installation up to 3 video door panels (*Plus/Uno* system) directly to the switch unit simplifying wiring between door panels.

**Remember:** Distributors, monitors, telephones, porter's exchanges and digital repeater will be connected to the output of the switch unit, never between door panel and switch unit.

See installation diagrams pages 31 to 34.



(\*) Door panel without power supply needs 7 wires (to connect the '+' terminal).

**Continue**

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#### Video installation with 1 switch unit (door panels with power supplies).

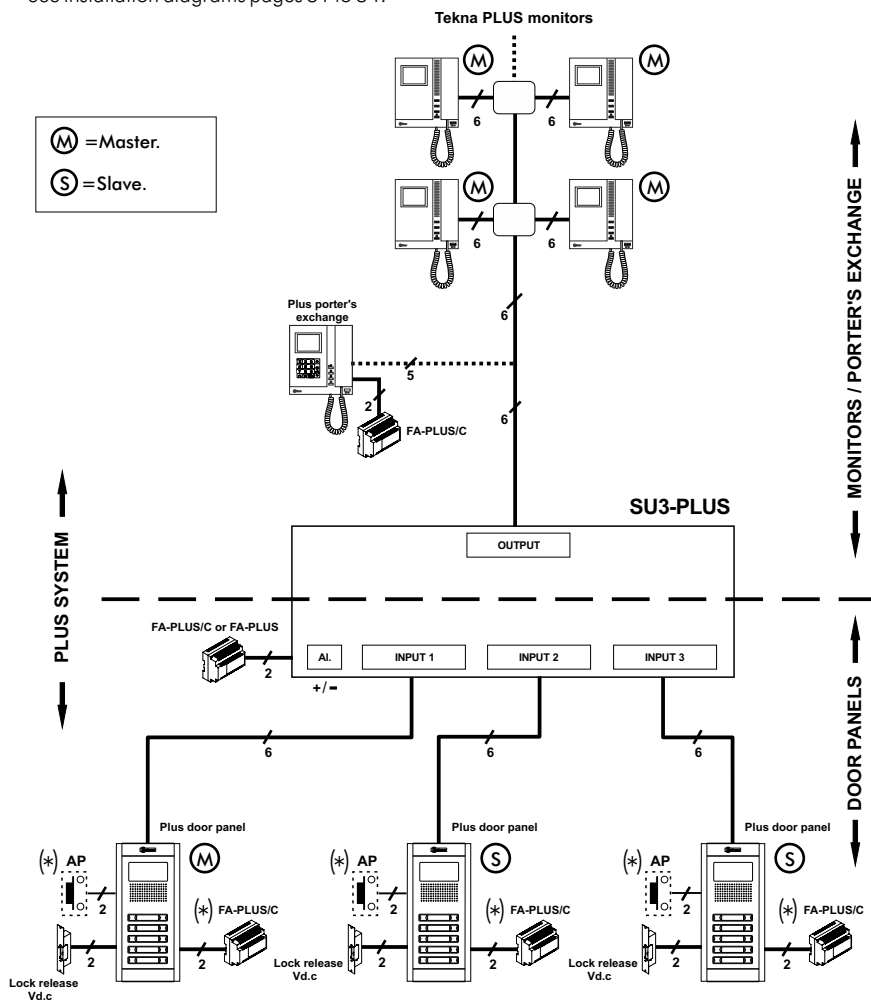
Permits the installation up to 3 video door panels (*Plus/Uno* system) directly to the switch unit simplifying wiring between door panels.

- (\*) **Important:** Will be necessary to connect a power supply on the door panels with "AP" function and and/or EL502 dc/ac converter module to connect a.c lock release (only Stadio door panel).

**Do not connect the positive terminal of the door panel (with power supply) to the switch unit.**

**Remember:** Distributors, monitors, telephones, porter's exchanges and digital repeater will be connected to the output of the switch unit, never between door panel and switch unit.

See installation diagrams pages 31 to 34.



Continue

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### Video installation with 2 switch units (door panels without power supplies).

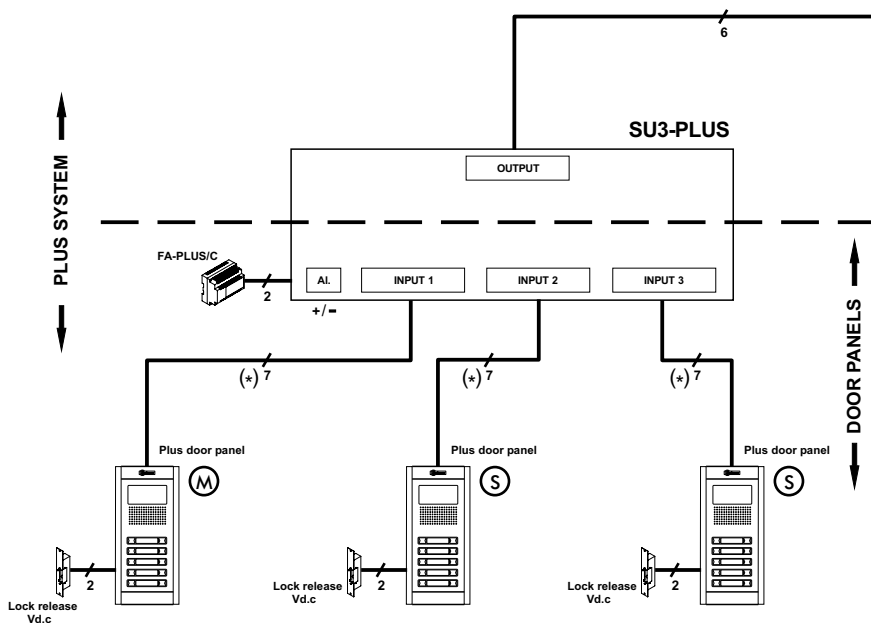
Permits the installation up to 5 video door panels (*Plus/Uno* system) directly to the switch unit simplifying wiring between door panels. The 2nd switch unit permits the installation up to 2 video door panels (*Plus/Uno* system). If the system has more than two switch units, wire them as the second is connected; connecting the output of the previous switch unit to the input of the next switch unit. In the last unit will connect the monitor Bus.

**Remember:** Distributors, monitors, telephones, porter's exchanges and digital repeater will be connected to the output of the switch unit, never between door panel and switch unit.

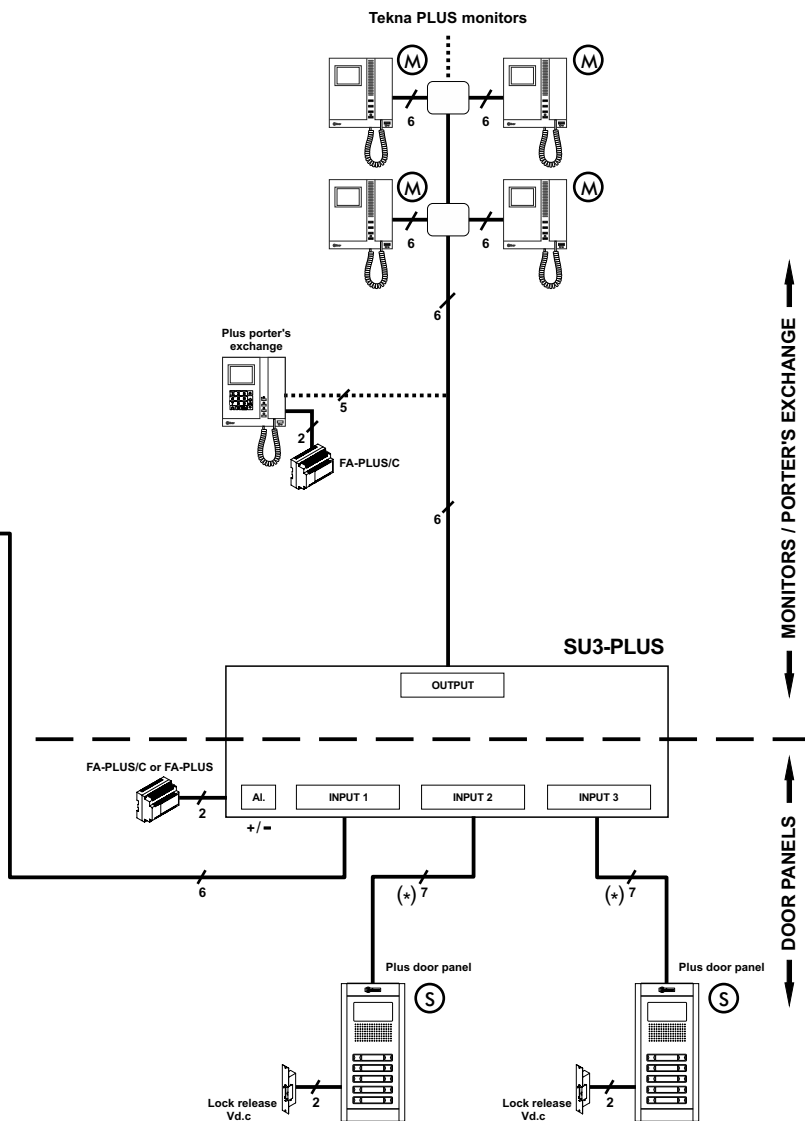
See installation diagrams pages 35 to 38.

(M) = Master.

(S) = Slave.



(\*) Door panel without power supply needs 7 wires (to connect the '+' terminal).



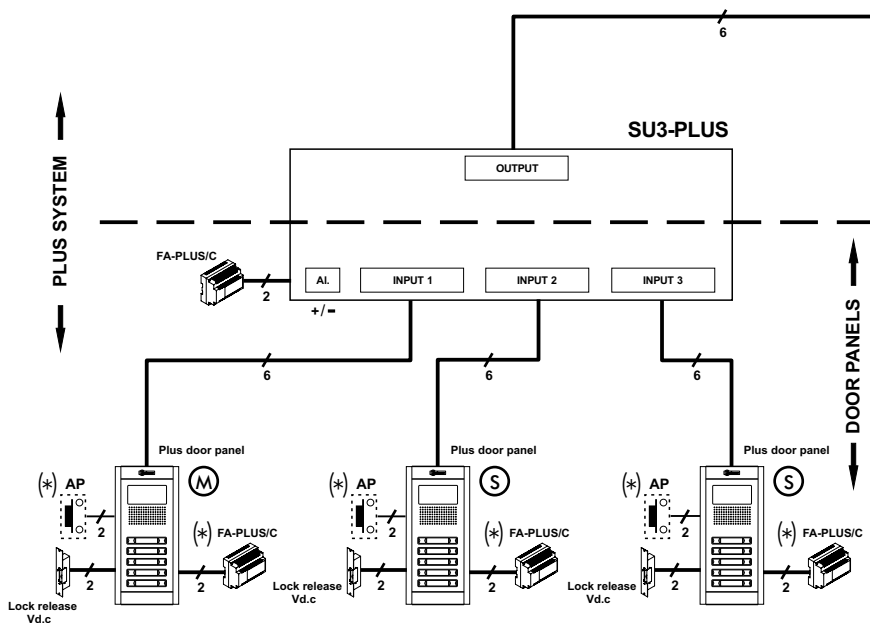
### Video installation with 2 switch units (door panels with power supplies).

(\*) **Important:** Will be necessary to connect a power supply on the door panels with "AP" function and/or EL502 dc/ac converter module to connect a.c lock release (only Stadio door panel).

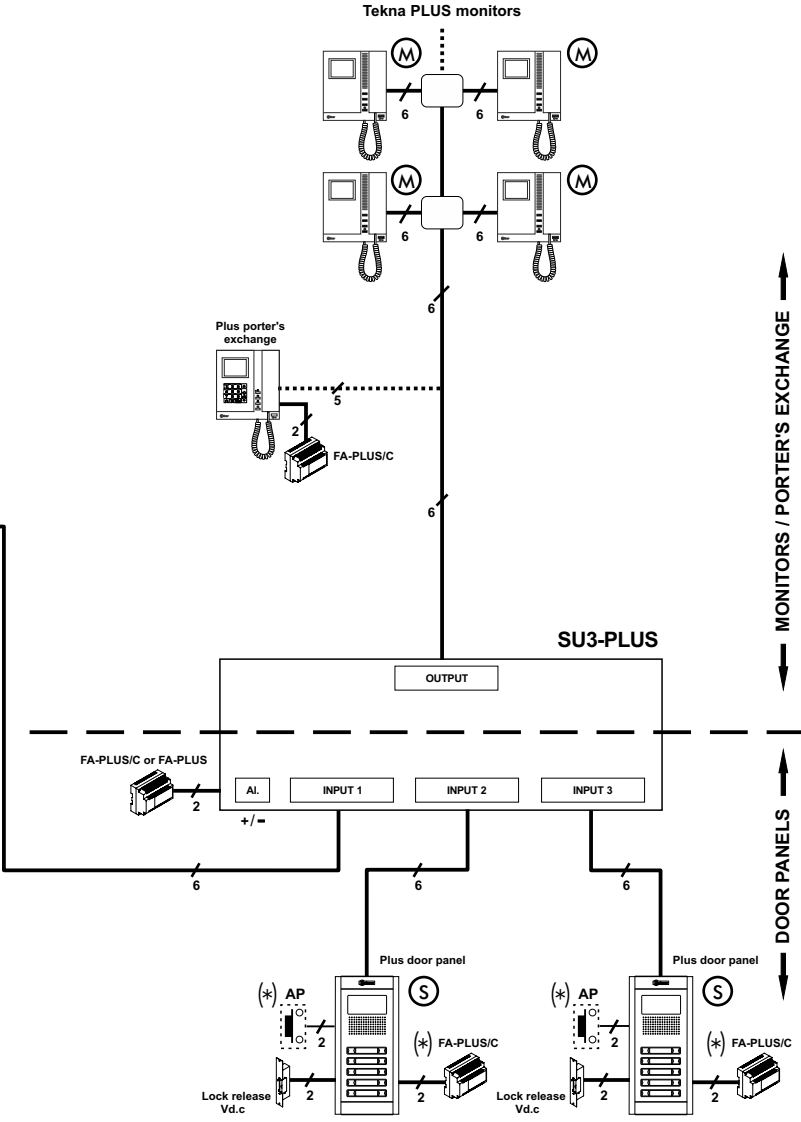
**Remember:** Distributors, monitors, telephones, porter's exchanges and digital repeater will be connected to the output of the switch unit, never between door panel and switch unit.

Ⓜ = Master.

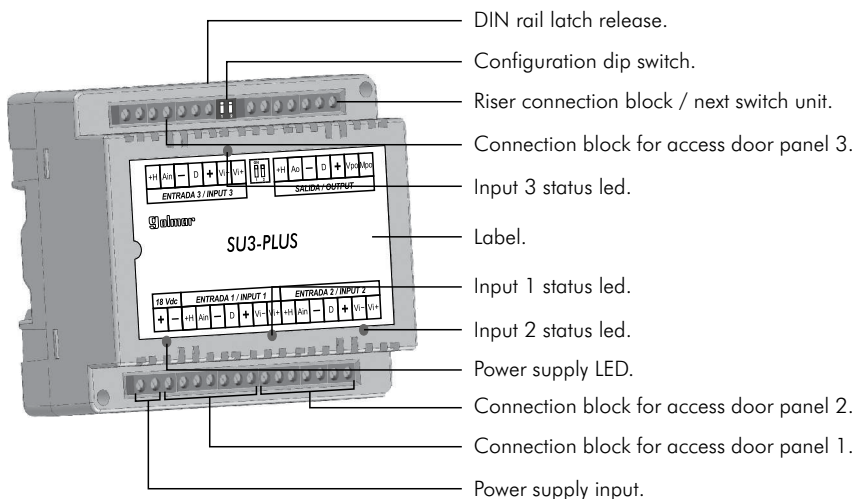
Ⓢ = Slave.







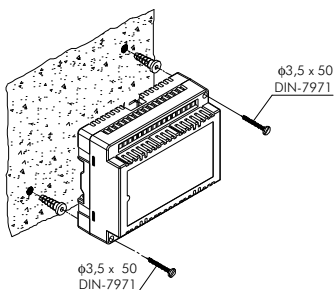
Description of the SU3-Plus switch unit.



## INSTALLATION

Detail of the switch unit installation.

Install the unit in a dry and protected place free from the risk of drip or water projections.  
To avoid damage the unit must be firmly fixed.

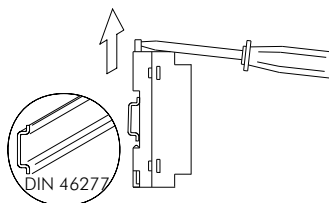


Install or modify the equipment **without the power connected.**

The installation and handling of this equipment must be performed by **authorised personnel.**

To install the unit directly on the wall, drill two holes of  $\varnothing 6\text{mm.}$  and insert the wallplugs. Fix the unit with the specified screws.

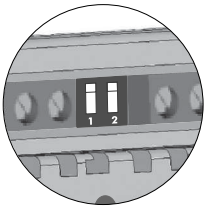
The unit can be installed on a DIN guide (6 elements), pressing it lightly.  
To extract the unit from the DIN guide, use a plain screwdriver to lever the flange as shown in the picture.



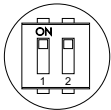
Description of the configuration dip switch.

The **SW1** configuration dip switch is located on the upper part of the module.

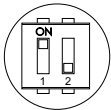
**Important:** Configuration dip switch for systems with general door panels.  
(Contact our technical support department).



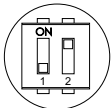
\*



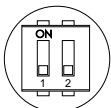
Switches 1 and 2 to ON, there is no input connected to the Bus in standby mode.



Switches 1 to ON and 2 to OFF, input 1 connects to the Bus in standby mode.



Switches 1 to OFF and 2 to ON, input 2 connects to the Bus in standby mode.

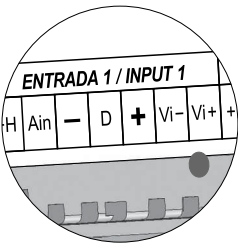


Switches 1 and 2 to OFF, input 3 connects to the Bus in standby mode.

**\*Factory default**

INPUT STATUS LED

Description of input status led.

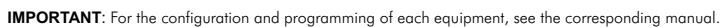


The switch unit has a status led for each input to indicate if it is connected to monitor Bus.

Off: Input in standby mode, it is not connected to the monitor Bus.

Blinking: The input is connected to monitor Bus (during call reception, communication, autoswitch-on, etc. progresses).

Fixed: Input is connected to monitor Bus in standby mode (see the **SW1** configuration dip switch).



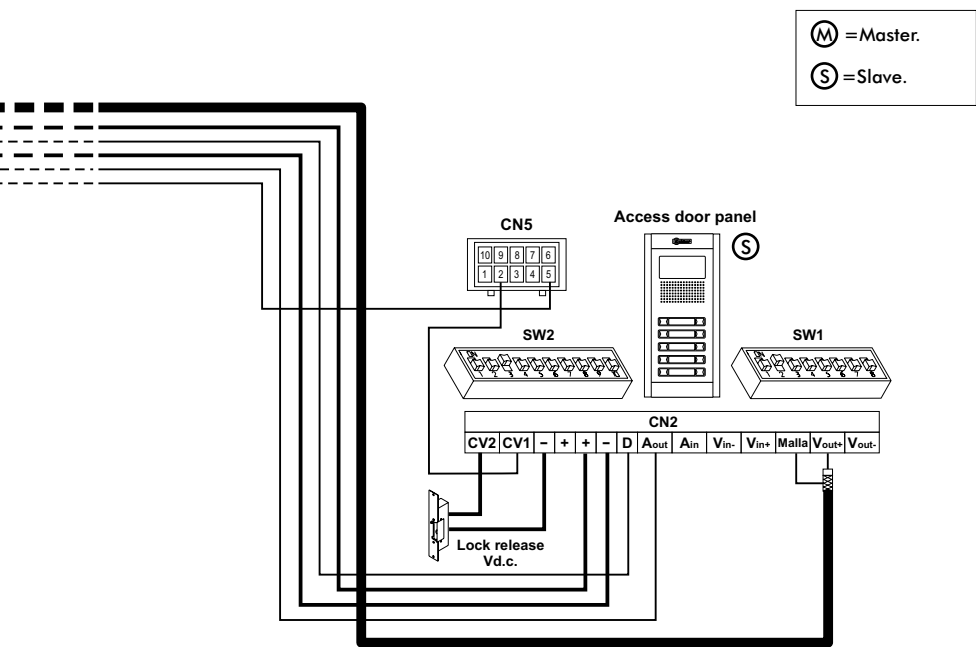
Video installation with coaxial cable and 1 switch unit.

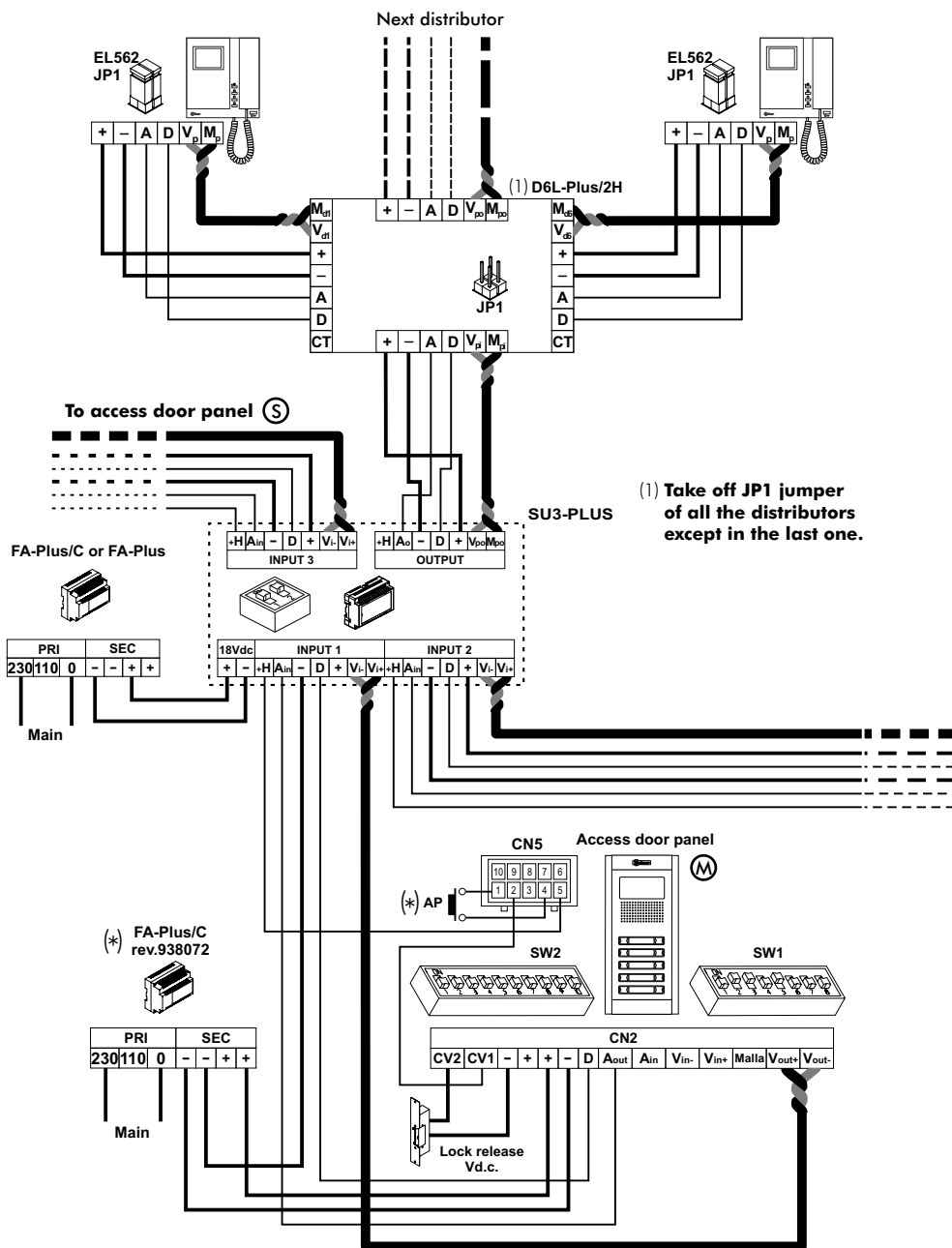
The installation diagram shows the connection of a video system with up to 3 door panels for the same building. Master door panel with "AP" function, (external push button to exit from the building).

(\*) **Important:** Will be necessary to connect a power supply on the door panels with "AP" function and/or EL502 dc/ac converter module to connect a.c lock release (only Stadio door panel).

Do not connect the positive terminal of the door panel (with power supply) to the switch unit.

**Remember:** Distributors, monitors, telephones, porter's exchanges and digital repeater will be connected to the output of the switch unit, never between door panel and switch unit.





**IMPORTANT:** For the configuration and programming of each equipment, see the corresponding manual.

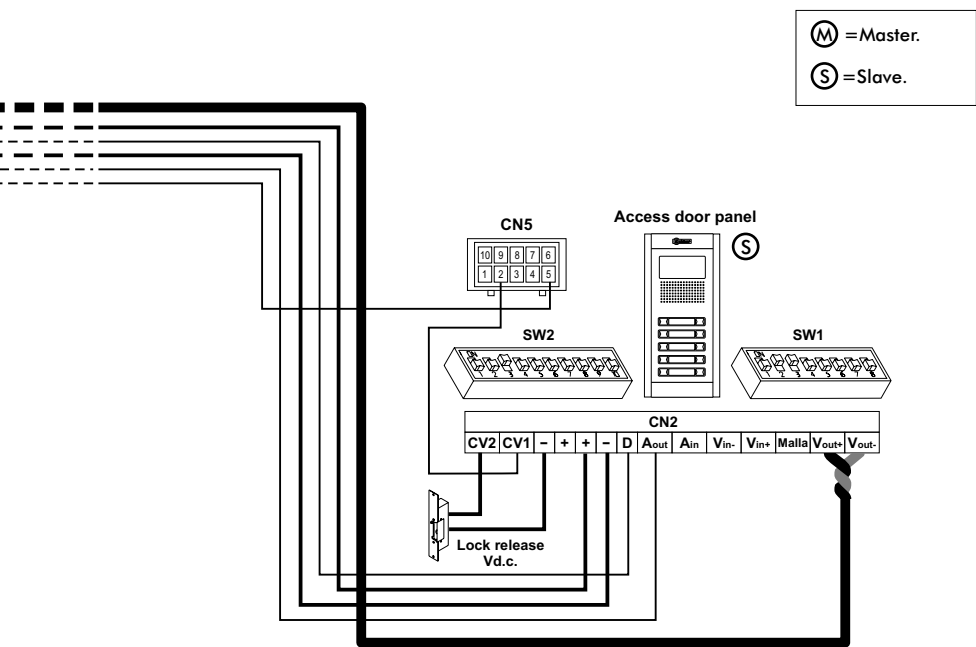
Video installation without coaxial cable and 1 switch unit.

The installation diagram shows the connection of a video system with up to 3 door panels for the same building. Master door panel with "AP" function, (external push button to exit from the building).

(\*) **Important:** Will be necessary to connect a power supply on the door panels with "AP" function and/or EL502 dc/ac converter module to connect a.c lock release (only Stadio door panel).

**Do not connect the positive terminal of the door panel (with power supply) to the switch unit.**

**Remember:** Distributors, monitors, telephones, porter's exchanges and digital repeater will be connected to the output of the switch unit, never between door panel and switch unit.



## V Video installation with coaxial cable and 2 switch units.

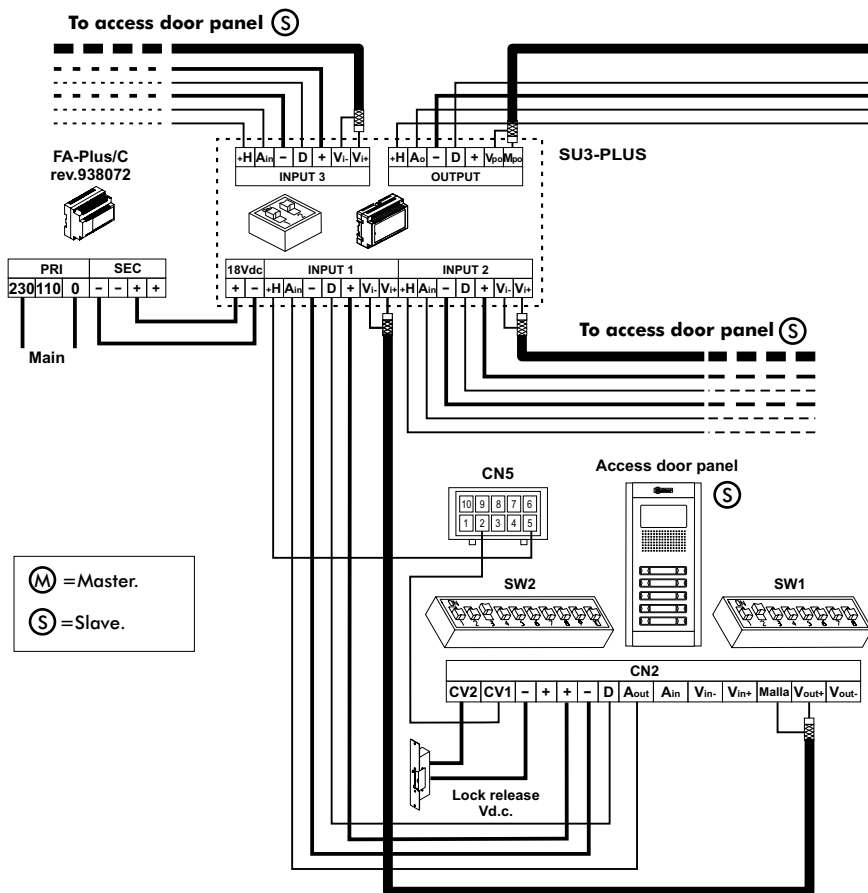
The installation diagram shows the connection of a video system with up to 5 door panels for the same building. Master door panel with "AP" function, (external push button to exit from the building).

If the system has more than two switch units, wire them as the second is connected; connecting the output of the previous switch unit to the input of the next switch unit. In the last unit will connect the monitor Bus.

(\*) **Important:** Will be necessary to connect a power supply on the door panels with "AP" function and/or EL502 dc/ac converter module to connect a.c lock release (only Stadio door panel).

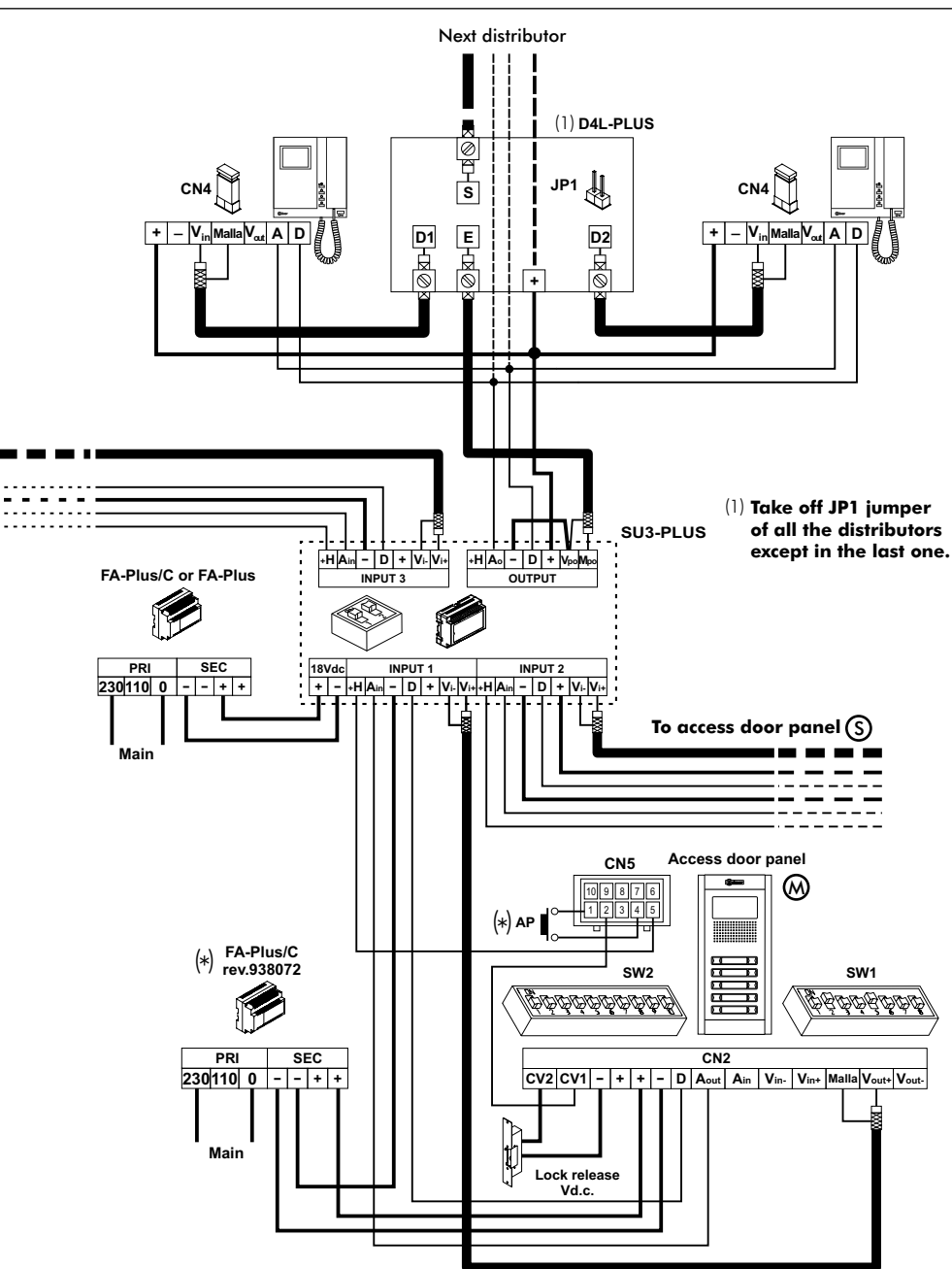
**Do not connect the positive terminal of the door panel (with power supply) to the switch unit.**

**Remember:** Distributors, monitors, telephones, porter's exchanges and digital repeater will be connected to the output of the switch unit, never between door panel and switch unit.



**IMPORTANT:** For the configuration and programming of each equipment, see the corresponding manual.





**V**ideo installation without coaxial cable and 2 switch units.

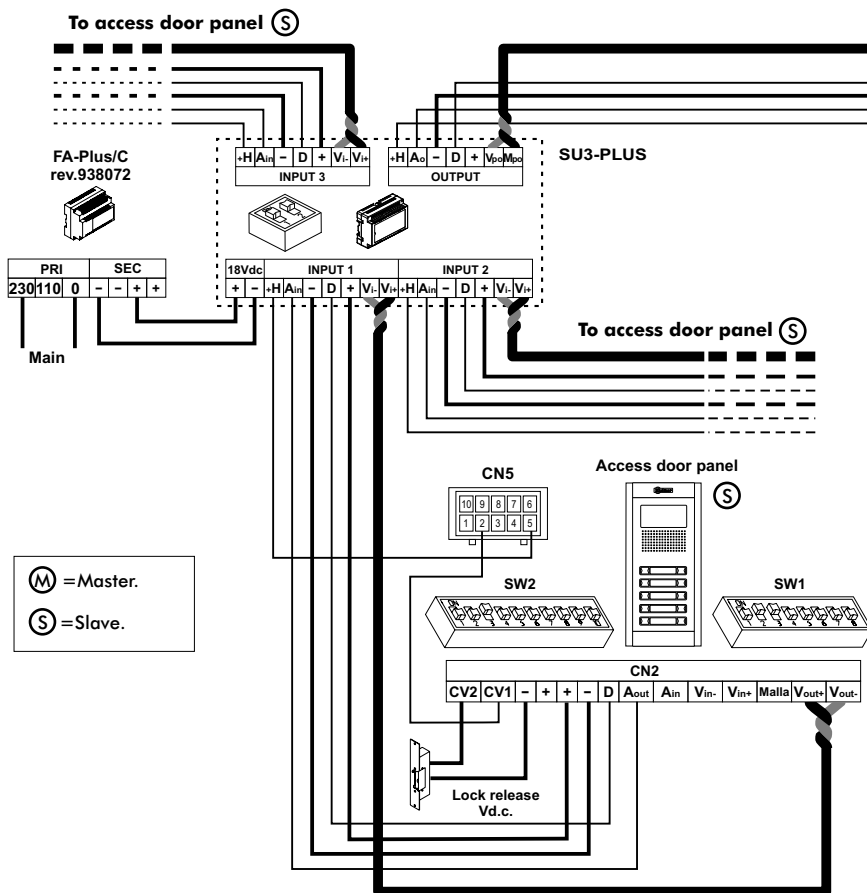
The installation diagram shows the connection of a video system with up to 5 door panels for the same building. Master door panel with "AP" function, (external push button to exit from the building).

If the system has more than two switch units, wire them as the second is connected; connecting the output of the previous switch unit to the input of the next switch unit. In the last unit will connect the monitor Bus.

(\*) **Important:** Will be necessary to connect a power supply on the door panels with "AP" function and/or EL502 dc/ac converter module to connect a.c lock release (only Stadio door panel).

**Do not connect the positive terminal of the door panel (with power supply) to the switch unit.**

**Remember:** Distributors, monitors, telephones, porter's exchanges and digital repeater will be connected to the output of the switch unit, never between door panel and switch unit.



**IMPORTANT:** For the configuration and programming of each equipment, see the corresponding manual.





**1141 Budapest, Fogarasi út 77.**      **1095 Budapest, Mester utca 34.**  
Tel.: \*220-7940, 220-7814, 220-7959,      Tel.: \*218-5542, 215-9771, 215-7550,  
220-8881, 364-3428 Fax: 220-7940      216-7017, 216-7018 Fax: 218-5542  
Mobil: 30 531-5454, 30 939-9989      Mobil: 30 940-1970, 30 959-0930

**www.golmar.hu**

**E-mail: [info@delton.hu](mailto:info@delton.hu) Web: [www.delton.hu](http://www.delton.hu)**