

notiziario tecnico
installation wiring diagrams

STATUS **2002**



AMPLIVOX

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NOTE

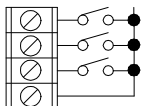
- a) AMPLYVOX S.p.A. suggests to use original components only.
- b) All the products included in this brochure are better described in our general catalogue.
- c) AMPLYVOX S.p.A. reserves the right to modify the design, construction, composition and equipment as it shall think fit without notifying the buyer and to supply products which may not be in strict accordance with agreed specifications.

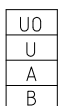

TO FACILITATE THE READING OF THE DIAGRAM, TERMINAL DATA MAY NOT CORRESPOND TO THE POSITION INDICATED ON THE EQUIPMENT.


TO AVOID DAMAGE THE PRINTED CIRCUIT, WE SUGGEST THAT TERMINALS ARE NOT OVER TIGHTENED.

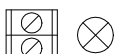
ENTRANCE PANEL (COMPONENTS) :



 Video camera module (code 8050; code 8050/C)


 Calls button



 Loudspeaker (code 007/2; code 007/3)




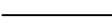




 Preamplified electret microphone (code 011/1; code 011/3)


 Name label festoon bulb (24 V – 3 W)

LEGEND :

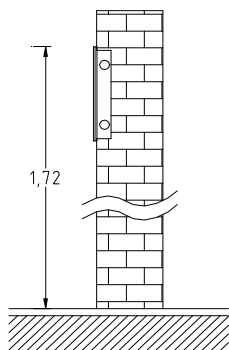
- Y DOOR OPENER BUTTON
- J APARTMENT CALL
- S.E. ELECTRIC LOCK 12Vca – 18VA
- R LOAD RESISTOR 75ohm 1/2W

SECTION OF WIRES :

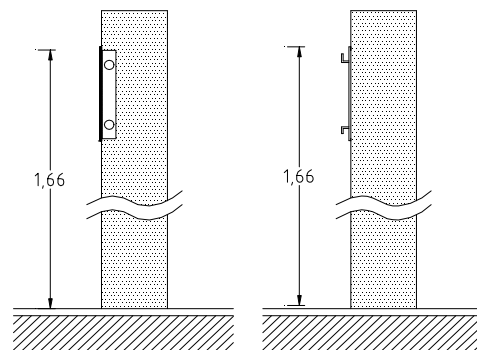
	100 mt.	200 mt.
	 1 mm.	 2 mm.
	 0,5 mm.	 1 mm.
	Coax 75 Ohm (type RG59 U – 75 Ohm)	

SUGGESTED INSTALLATION HEIGHTS :

Video entrance panel
(code 809.../n)
(Mosaico)



Monitor wall mount bracket
(code 8105 - 8155)
(code 8105/C – 8105/MV)



SUGGESTIONS FOR THE CORRECT INSTALLATION

- 1) Do not execute any connection, replacement or operation with the system powered.
- 2) Do not use the compact cable (code 850) for connections longer than 100 mts. Over this distance it is recommended to use the normal 75 Ω TV coaxial cable and multiple electric cable with suggested diameter.
- 3) Be careful installing the external video entrance panel to the right indicated height and avoid installing the CCD video camera in direct view of sunlight.
- 4) Do not run the cables of the video door system in the same duct of the mains network.
- 5) A relay is suggested to control external devices like electric bell, light, etc.
- 6) There are more than one "H" terminals on the equipments, it makes no difference which "H" terminal is used.
- 7) The CCD video camera is normally supplied with infrared leds built in, to allow a correct vision of the visitor.
- 8) To supply the name label festoon bulbs in the entrance panel a dedicated transformer and its wires connection are suggested.

PRELIMINARY CHECKS

Before main connections:

- 1) Check that the connections are made following the drawing supplied with the equipment.
- 2) Check that no short circuit exists between terminals "H" and "+".
- 3) The coaxial cable starting from the CCD video camera must present a resistance of about 75 Ω .
Note: this measurement is not valid for the single residence video kit.

TEST OF OPERATIONS

- 1) Power the system.
- 2) Push the call button of the external video entrance panel and check if:
 - the electronic call sounds at the monitor.
 - the monitor's image is clear, stable and defined.
 - the image needs regulating (operate on brightness and contrast controls).
- 3) Wait for the automatic turn off of the monitor, then repeat the call (in the case of multi users video door entry system).
A special circuit (in the power supply code 8600) avoids the simultaneous turn on of more than one monitor.
- 4) It is possible to modify the turn on time of the monitor, operating on the potentiometer "B" of the power supply (code 8600) in counter clockwise direction of rotation.
The timer is adjustable from 12 to 140 seconds.
- 5) The phonic test must be effected talking at a distance of 30 cms. from the external video entrance panel.
The volume of the amplifiers is normally factory set, however if the amplification proves to be too high or too low, this can be adjusted accordingly via the two potentiometers "A" and "B" which can be found on the top of the amplifier.

"A" = regulates the volume from the inside to the outside

"B" = regulates the volume from the outside to the inside

The amplification settings must be carried out with the unit in operation, so as to hear the effects of the settings.

It is important to start the adjustments with potentiometer "A".

However it is important to avoid increasing the volume to a very high level that will produce the feedback whistle due to the Larsen effect.

TROUBLESHOOTING

VIDEO

- A) MONITOR DOES NOT SWITCH ON
- Check between "H" and "+" at code 8600 and make sure you are receiving 18Vdc. If not change the power supply.
 - Check between "H" and "+" at monitor and make sure you are receiving 18Vdc at the monitor. If not check the continuity of the cable from power supply to monitor.
 - Check when the monitor is called that between "H" and "1" there is 18Vac. If not check the continuity of the call button wiring.
- B) MONITOR SWITCHES ON BUT DISPLAYS NO PICTURE.
- Check the continuity of the coaxial cable and there is not a short circuit between the conductor and screen.
 - Check the video distributor is operating and is supplied with 18Vdc.
 - If all the system monitors produce the same fault, check that the system camera is receiving 18Vdc. If the camera receiving 18Vdc but the system still inoperative, change camera.

AUDIO

- A) THE FEEDBACK WHISTLE DUE TO LARSEN EFFECT.
- Check connections are correct, then reduce both volumes controls until the whistle is eliminated.
 - It is recommended to set channel "A" volume greater than channel "B".
- B) INTERNAL VOLUME TOO LOW.
- Check that there are no cross connections between terminals "A" and "B" of the microphone in the external entrance panel.
 - The efficiency of the microphone might have fallen and its replacement would be necessary.
 - Fault in the channel "B" of the amplifier (code 8610).
Replace the amplifier.
- C) EXTERNAL VOLUME TOO LOW.
- The efficiency of the loudspeaker in the external entrance panel might have fallen and its replacement would be necessary.
 - Fault in the channel "A" of the amplifier (code 8610).
Replace the amplifier.
- D) NO PHONIC IN BOTH CHANNELS.
- Check that a voltage (12 Vdc) is present between the terminal "+A" and "OH" of the amplifier (code 8610).
 - Check fuse 1 A in the amplifier.
 - Replace the fuse if blown and replace the amplifier if the fuse continue to blow.

SERVICES

- A) MONITOR DOES NOT RELEASE THE ELECTRIC LOCK.
- Check the continuity of the wire "Z" – "SE" – "ZM" – "F".
 - Check the efficiency of the electric lock relay in the power amplifier (code 8610)
The relay must trip connecting terminals "Z" and "H".

PROTECTIONS

Power supply code 8600.

- Electronic circuit.
- 500 mA fuse slow-blow (primary).
- 3 A fuse (secondary).

Amplifier code 8610.

- 1 A fuse ("A" d.c. amplifier supply).

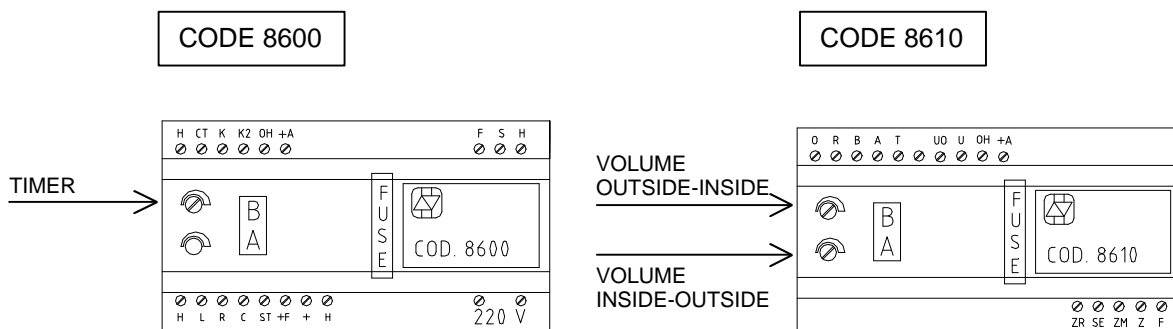
ADJUSTMENTS

Power supply code 8600.

- Potentiometer "A": timer adjustable from 12 to 140 seconds.

Amplifier code 8610.

- Potentiometer "A": regulates the volume from the inside to the outside.
- Potentiometer "B": regulates the volume from the outside to the inside.



TERMINAL FUNCTION

T.	Value	Function	Note
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**POWER SUPPLY
CODE 8600**

H	0 V	General earth	All voltage reference level
K	22 V ~	Call button common Timer starter	The call starts the timer
K2	22 V ~	Timer circuit supply	Normally connected to terminal "S" (-)
+F	+18 V =	Permanent voltage	Stand on terminal
+	+18 V =	Timed voltage	Stand on when timer is working
CT		External timer reset	Special function
ST	+18 V =	Voltage present at rest	Special function
L	NO contact	Auxiliary contact at rest	Special function
R	NC contact	Auxiliary contact at rest	Special function
C	Common contact	Auxiliary common contact	Special function
S	22 V ~	A.C. voltage-services supply	Stand on terminal
+A	+12 V =	D.C. amplifier supply	Stand on terminal
OH	0 V	Earth amplifier supply	Stand on terminal
F	16 V ~	A.C. voltage-services supply	Stand on terminal

**AMPLIFIER
CODE 8610**

+A	+12 V =	D.C. amplifier supply	Stand on terminal
OH	0 V	Earth amplifier supply	Stand on terminal
F	16 V ~	A.C. voltage-services supply	Stand on terminal
Z	Opened 7 V = Closed 0 V	Electric lock relaycontrol	
T	Audio signal	Monitor loudspeaker	Stand on terminal
R	Opened 12 V = Closed 4 V =	Monitor microphone	Modulated voltage during conversation
O	0 V	Phonic earth	Stand on terminal
SE	Opened 16 V ~ Closed 0 V	Electric lock release control	Connected to earth by relay
ZM	Common	Electric lock circuit earth	Stand on terminal
ZR	NC contact	Electric lock circuit	Stand on terminal
U	Audio signal	Entrance panel loudspeaker	Stand on terminal
UO	0 V	Entrance panel loudspeaker earth	Stand on terminal
A	Opened 12 V = Closed 3,5 V =	Entrance panel microphone	Modulated voltage during conversation
B	0 V	Entrance panel microphone earth	Stand on terminal

**MONITOR
CODE 8105
CODE 8105/C
CODE 8105/MV**

V	75 Ohm		Composite video signal
VS	0 V	Earth braid	
1		Call	
+	+18 V =	Timed voltage	Stand on when timer is working
S	12 V ~	Additional buzzer	Special function
X	12 V ~	Electronic call	Special function
E		L. F. output signal	Modulated signal
T	Audio signal	Monitor loudspeaker	Stand on terminal
R	Opened 12 V Closed 4 V	Monitor microphone	Modulate voltage during conversation
H	0 V	General earth	All voltage reference level
CL	NO contact	Auxiliary contact at rest	Special function
CC	Common contact	Auxiliary common contact	Special function
CR	NC contact	Auxiliary contact at rest	Special function
Z	Opened 7 V = Closed 0 V	Electric lock release control	Closed to earth when the relay is activated
O	0 V	Phonic earth	Stand on terminal

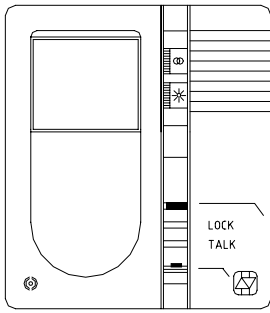
**VIDEO CAMERA
MODULE
CODE 8050
CODE 8050/C**

H	0 V	General earth	All voltage reference level
+	+18 V =	Timed voltage	Stand on when timer is working
V	75 Ohm	Coaxial cable core	Composite video signal
VS	0 V	Coaxial cable earth braid	

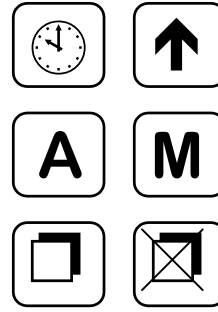
MONITOR CODE 8105/MV : TERMINAL "S" (SUPPLIES MEMORY BOARD).

MONITOR STATUS WITH IMAGES MEMORY

Description.



Push button "VIDEO RECALL"
ON-OFF LED for automatic recording



1- Clock Setting Procedure.

This operation is needed because data appear on every recorded images.

A- Press push button "video Recall" to switch on the monitor

B- When ☰ is operated, the symbol (*) will appear round the character of date and will be flashing. By the next operation, the symbol will move in the following order:

day month year hour minute

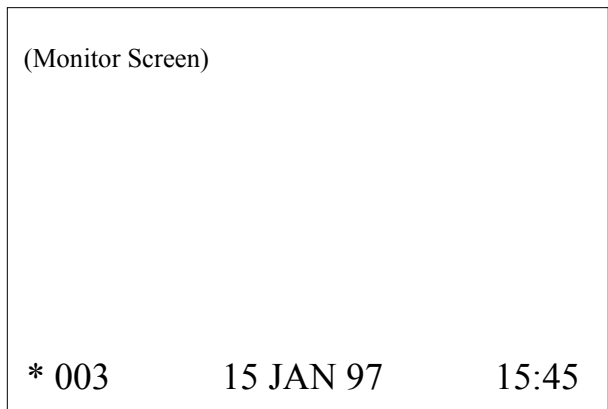
The part of time and date where the symbol is flashing can be set by ↑ to required number. When this key is operated after setting of "minute", the flashing symbol will disappear and clock function will start.

If ↑ is kept pushed more than 1/2 second, the flashing part will be advanced continuously.

If ↑ is kept pushed less than 1/2 second, the flashing part will be advanced step by step.

If during these procedure the monitor switch off, press the push button "Video Recall" one more time.

Example of date-hour programming displayed on screen.



Abbreviation of month

- JAN : January
- FEB : February
- MAR : March
- APR : April
- MAY : May
- JUN : June
- JUL : July
- AUG : August
- SEP : September
- OCT : October
- NOV : November
- DEC : December

- Minute
- Hour (24 hours indication)
- Year (last 2 digits indication)
- Month
- Day

Number of recorded pictures & Number or recorded picture at play back

* : At through pictures

> : At play back of recorded pictures

2- Absent Recording.

Absent recording is in operation at switch **A** pushed on, and **ON-OFF LED** is on for absent recording check. If **A** will be pushed again, the **ON-OFF LED** of absent recording check will return off.

Absent recording mode is the mode in which the image will be memorized to memory system when there is a call after 5 seconds. If next call comes in within 30 seconds, after automatically recording, it can not be recorded to prevent the same person to be filmed more than once.

When memory is fully accupied upto the 32 pictures and new image comes exceeding 32, this is recorded and the oldest memorized picture is erased.

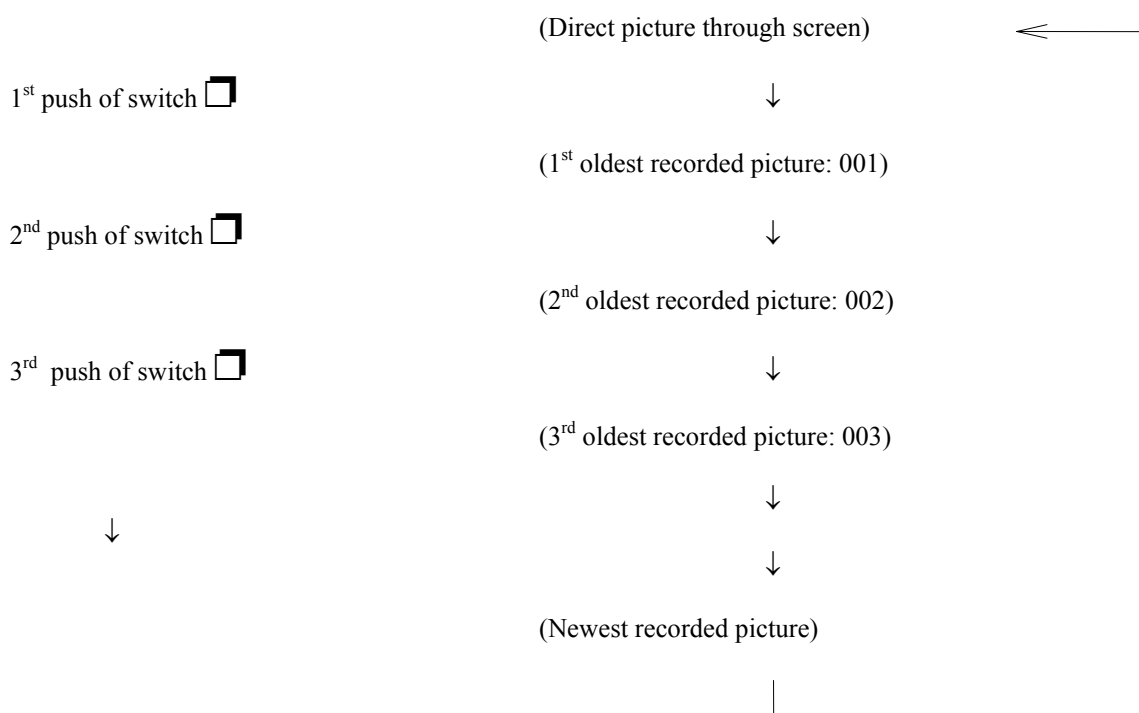
IMPORTANT: While absent recording is set, any other switch input shall be rejected.

3- Viewing of recorded images and Picture Shifting.

A- De-activate the automatic recording function if previously activated by pressing the **A** key, the **ON-OFF LED** will turn off.

B- Press push button “**video Recall**” to switch on the monitor.

C- By pushing switch , oldest picture among all memorized pictures will be picked up from memory system and the image for this picture will be sent out through the monitore. By the next operation (push again), memory of the next number of picture will be drawn out. This play back operation of the memorized pictures will be in the following order. The oldest recorded picture is page n° 001.



If the switch **PLAY** remains not pushed for one minute at play back mode, the screen returns to through picture.

Number of page is displayed at play back mode, for example if there is >003 on the left bottom side of the screen, it indicates that the page n°3 of recorded pictures is on display. Number of total recorded pages is diplayed at through mode. If there is *003 on the screen it indicates that 3 pages have been recorded in total at the time.

4- Video recording reset.

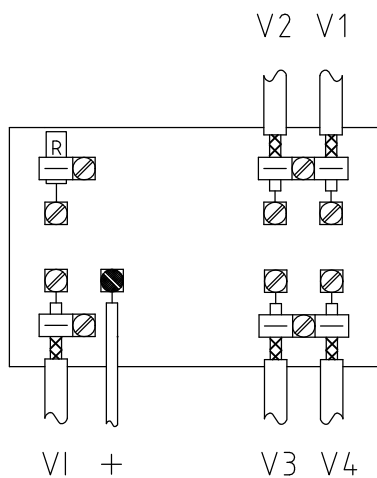
A- Press push button “**video Recall**” to switch on the monitor.

B- All memorized pictures are erased when the switch is kept pushed for more than 5 second. The monitor must be operating normally when this operation is carried out ; (the symbol * appearing on the screen).

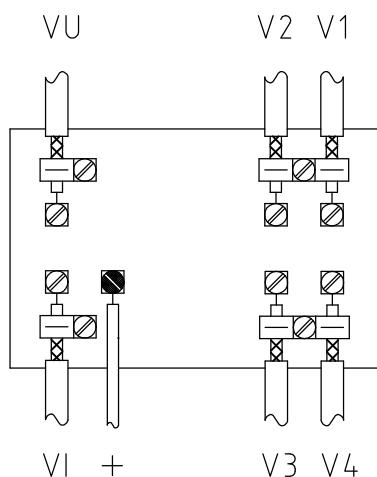
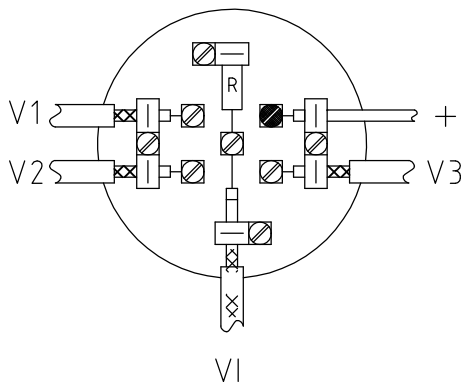
5- Manual recording

A- De-activate the automatic recording function if previously activated by pressing the **A** key, the **ON-OFF LED** will turn off.

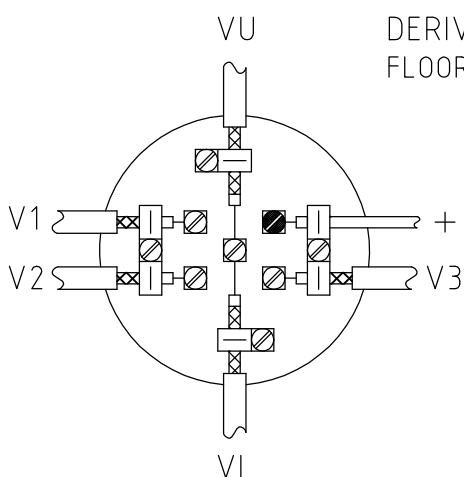
B- When the call is received, the image can be recorded immidiately in the memories by switch **M**.



DERIVATORE VIDEO FINALE
FINAL VIDEO DISTRIBUTOR



DERIVATORE VIDEO DI PIANO
FLOOR VIDEO DISTRIBUTOR



LEGENDA :

- V1 - VN DERIVAZIONI VIDEO
- VI INGRESSO MONTANTE
- VU USCITA MONTANTE
- R RESISTENZA DI CARICO, 75 OHM 1/2 W
- COLLEGAMENTO AL CONDUTTORE "+" (MORSETTO ROSSO).

IMPORTANTE:

- NON COLLEGARE MAI ALL'USCITA DEL MONTANTE UN MONITORE, MA UTILIZZARE SEMPRE LA RESISTENZA DI CARICO.
- $V_{in} : 15 - 22 V_{cc}$
- ASSORBIMENTO A CARICO : 30 mA

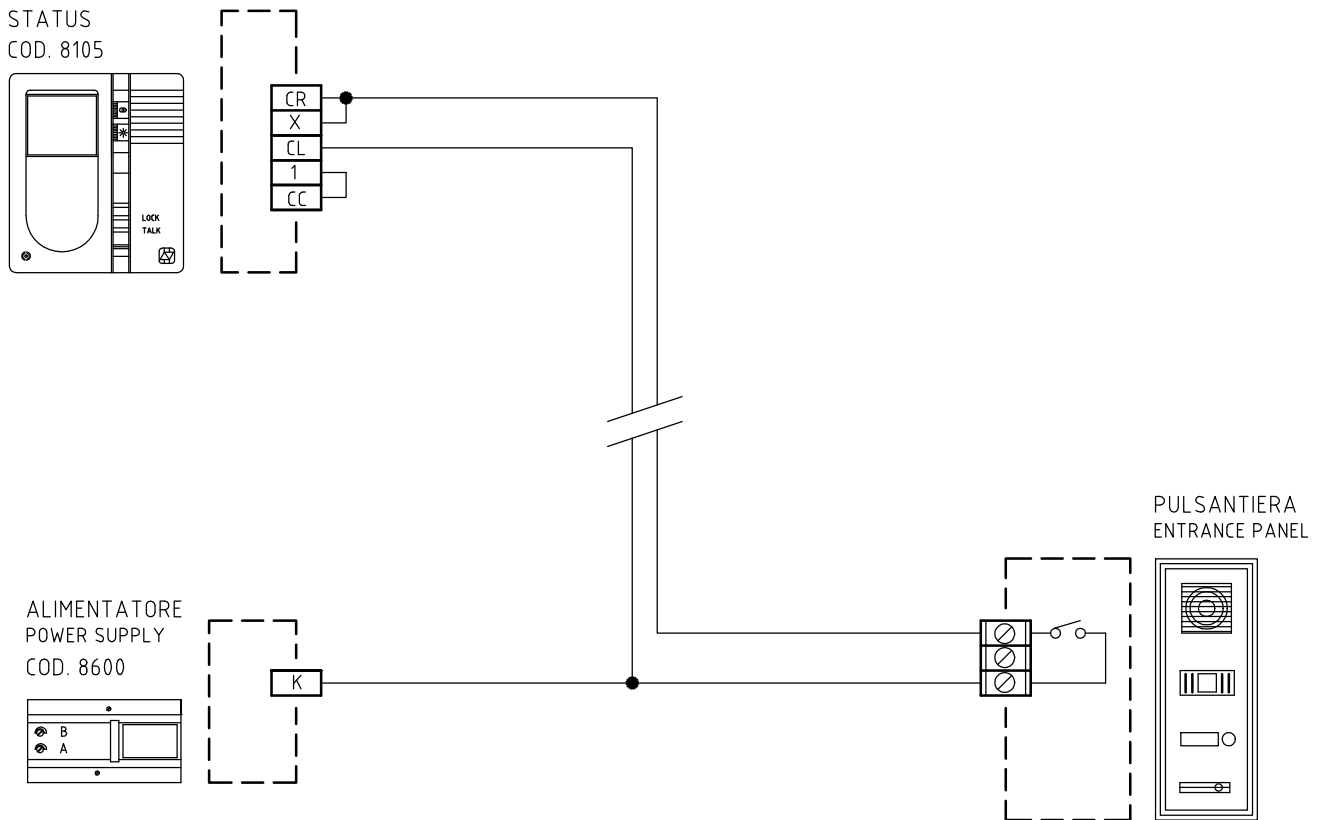
LEGEND:

- V1 - VN VIDEO BRANCHES
- VI RISER INPUT
- VU RISER OUTPUT
- R LOAD RESISTOR, 75 OHM 1/2 W
- CONNECTION TO "+" WIRE (RED).

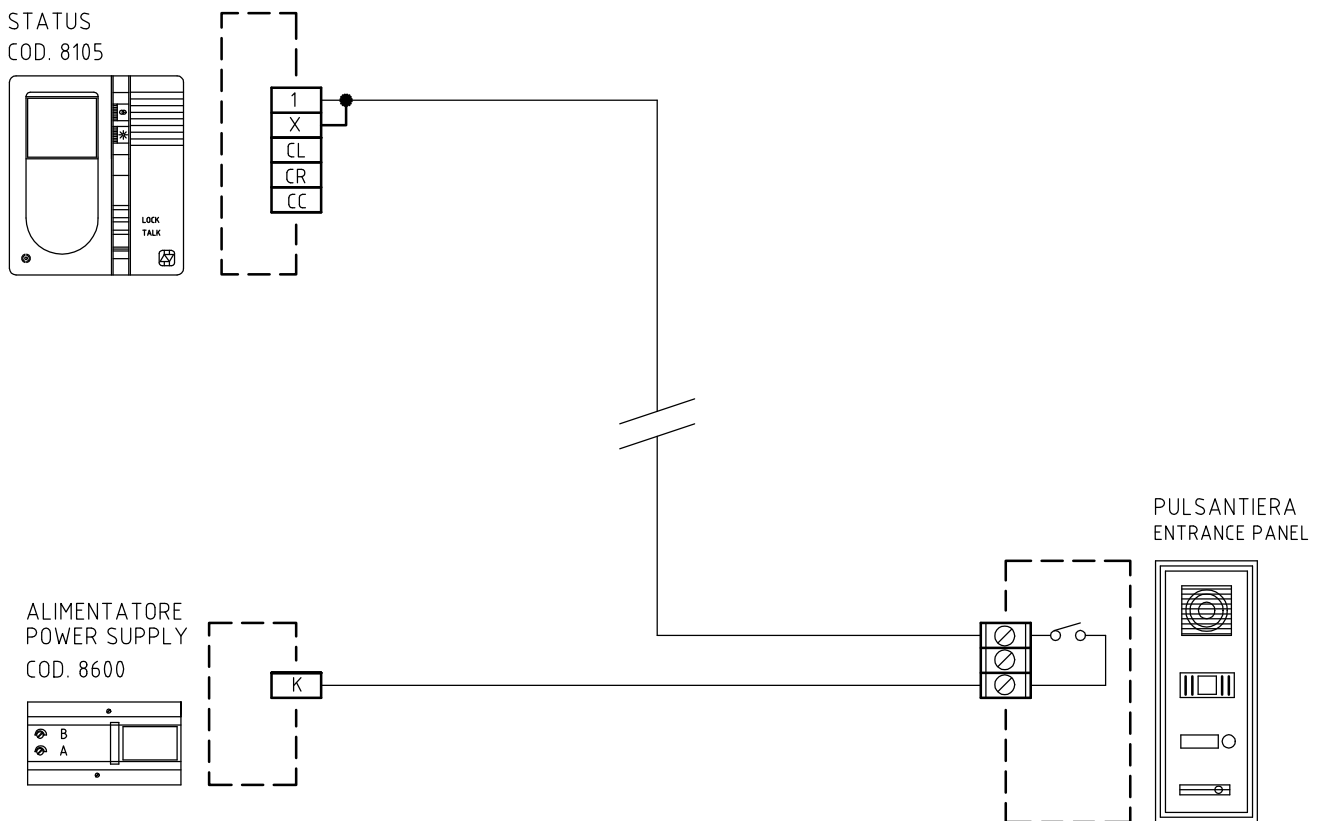
IMPORTANT NOTE :

- ONLY CONNECT THE OUT (VU) OF THE DISTRIBUTOR TO ANOTHER DISTRIBUTOR OR BLOCK WITH A 75 ohm RESISTOR.
- DO NOT CONNECT TO A MONITOR.
- $V_{in} : 15 - 22 V_{dc}$
- ABSORPTION : 30mA

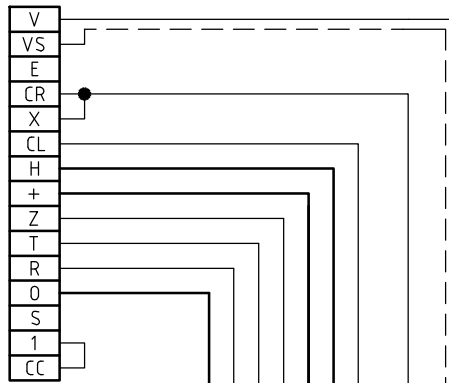
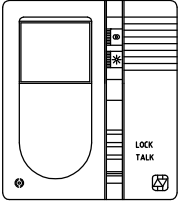
COLLEGAMENTO DEL MONITORE CON RICHIAMO VIDEO
 MONITOR CALL WITH VIDEO RECALL



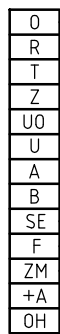
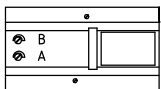
COLLEGAMENTO DEL MONITORE SENZA RICHIAMO VIDEO
 MONITOR CALL WITHOUT VIDEO RECALL



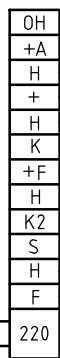
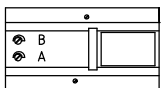
STATUS
COD. 8105
COD. 8105/C



AMPLIFICATORE
AMPLIFIER
COD. 8610



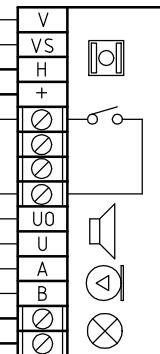
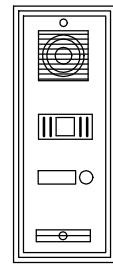
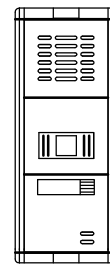
ALIMENTATORE
POWER SUPPLY
COD. 8600



RETE
MAIN



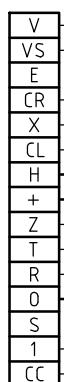
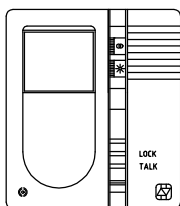
PULSANTIERA
ENTRANCE PANEL
COD. 8700/P1 COD. 8091/1



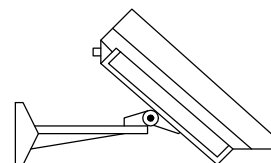
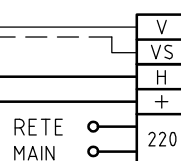
Y

S.E.

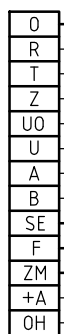
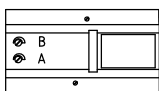
STATUS
 COD. 8105



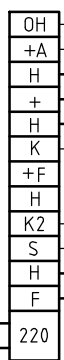
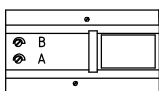
TELECAMERA IN CUSTODIA
 EXTERNAL CAMERA
 COD. 8055/018 + 732



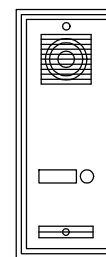
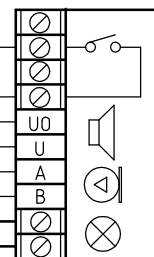
AMPLIFICATORE
 AMPLIFIER
 COD. 8610



ALIMENTATORE
 POWER SUPPLY
 COD. 8600



PULSANTIERA
 ENTRANCE PANEL
 COD. 4091/01

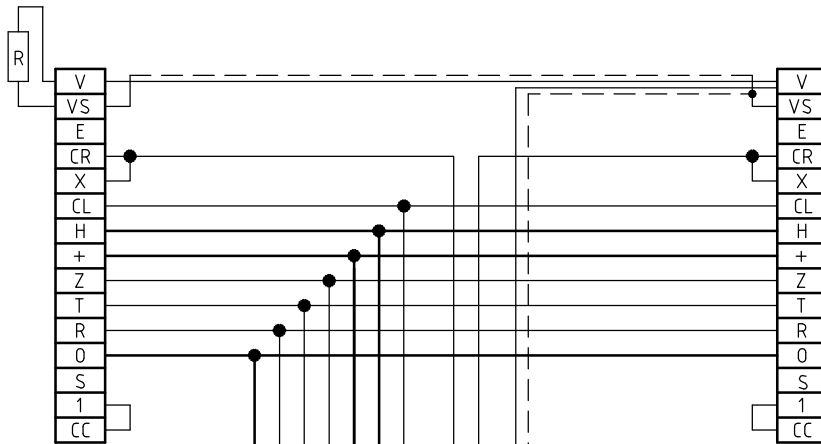
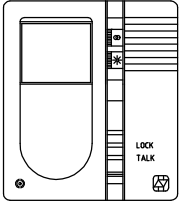


RETE
 MAIN
 220

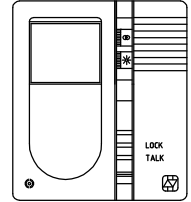


S.E.

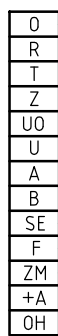
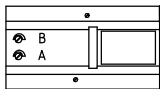
STATUS
COD. 8105
COD. 8105/C



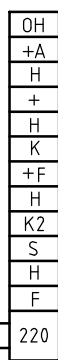
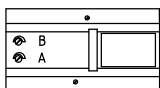
STATUS
COD. 8105
COD. 8105/C



AMPLIFICATORE
AMPLIFIER
COD. 8610



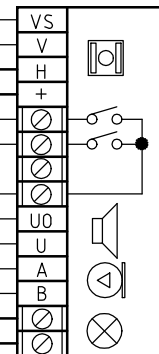
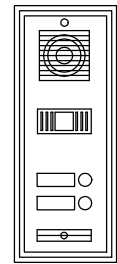
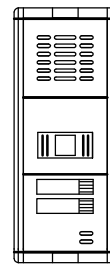
ALIMENTATORE
POWER SUPPLY
COD. 8600



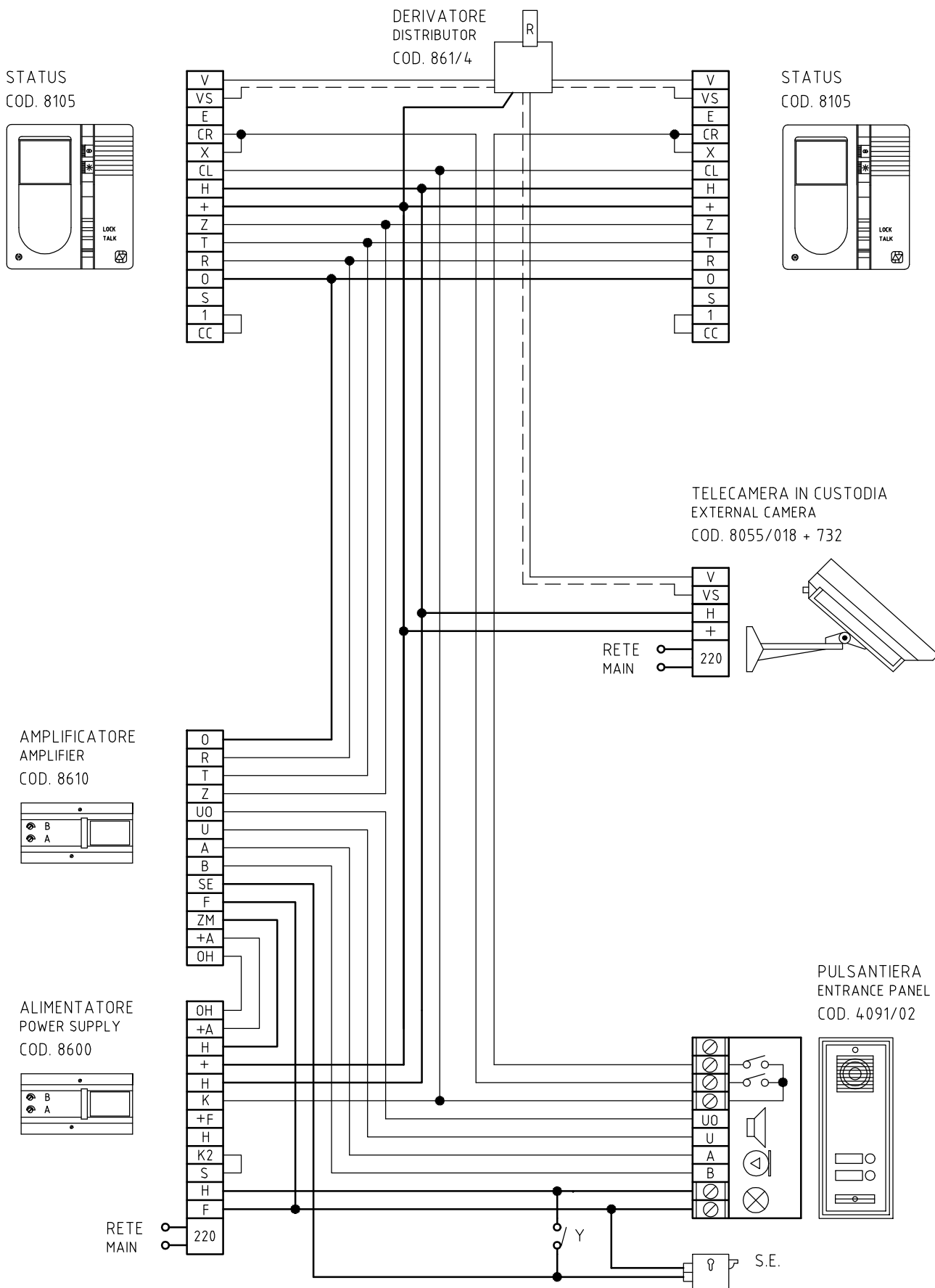
RETE
MAIN



PULSANTIERA
ENTRANCE PANEL
COD. 8700/P2 COD. 8091/2

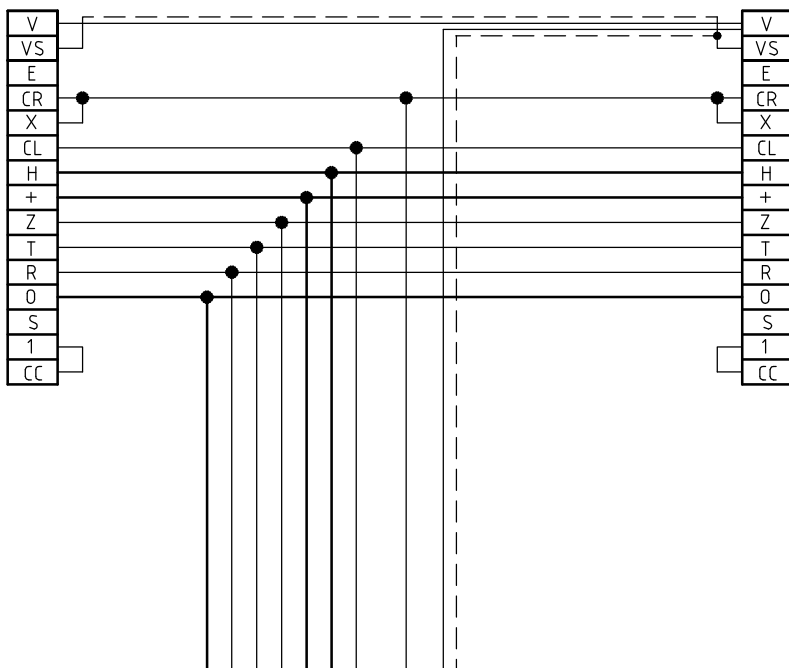
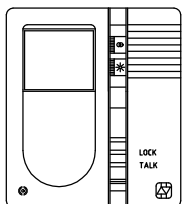


S.E.

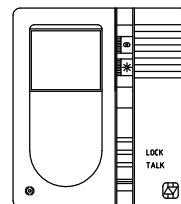


COLLEGAMENTO DI UN MONITORE IN PARALLELO
MONITORS IN PARALLEL

STATUS
COD. 8105

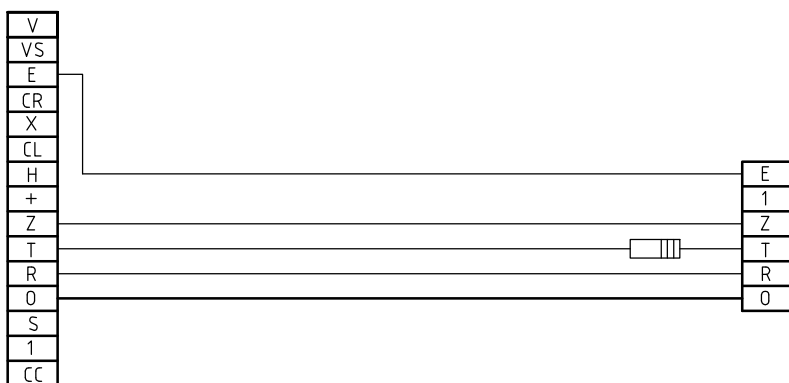
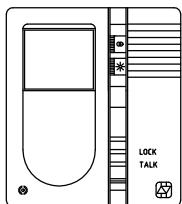


STATUS
COD. 8105

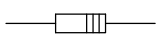


COLLEGAMENTO DI UN CITOFONO IN PARALLELO
TELEPHONE IN PARALLEL

STATUS
COD. 8105

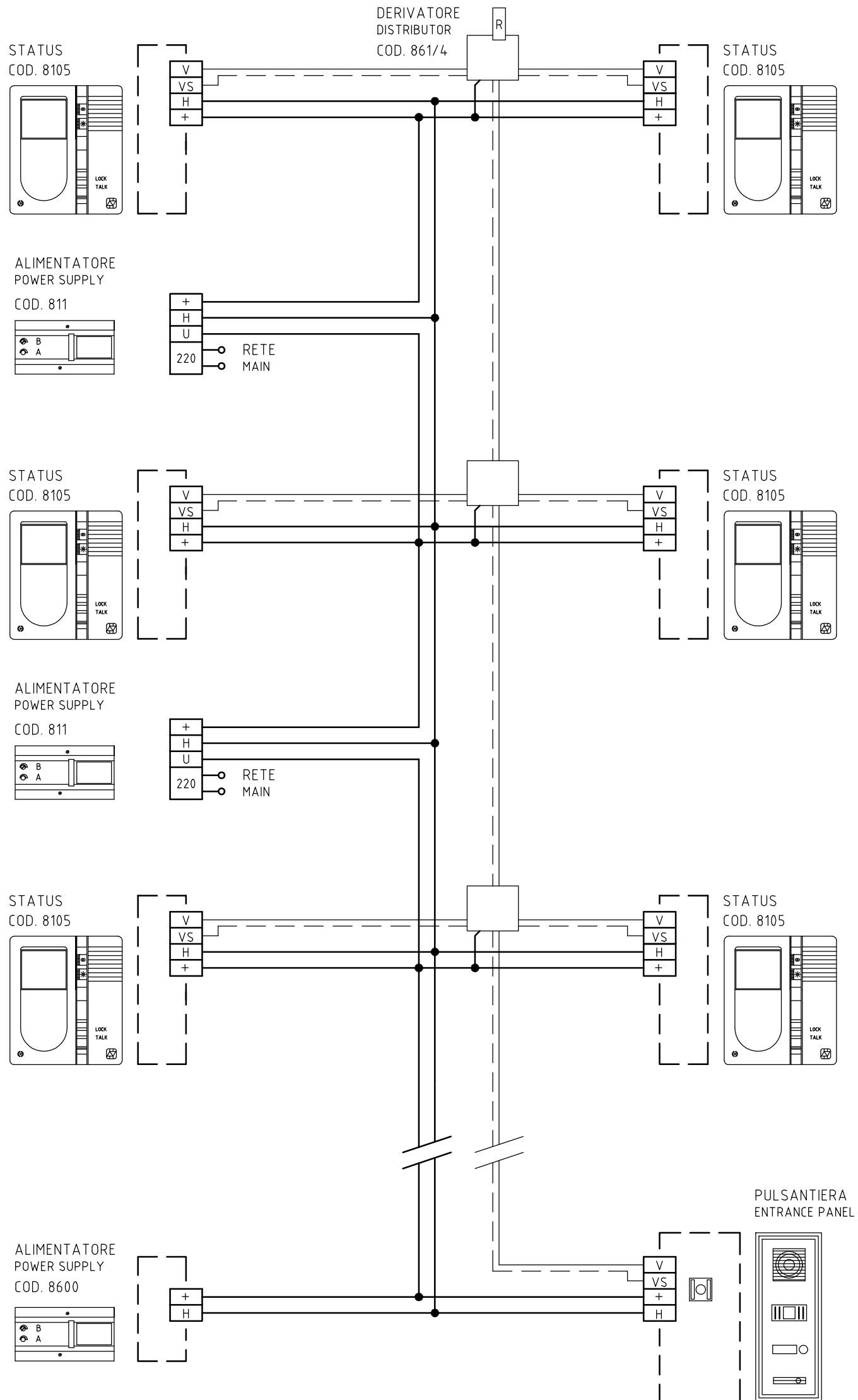


SYMBOL
COD. 2215



RESISTENZA 100 ohm 1/4 W
RESISTOR 100 ohm 1/4 W

COLLEGAMENTO CON PIU' MONITORI IN PARALLELO
 MORE MONITORS IN PARALLEL



COD. 811 :

Vin 230 Vca 50/60 Hz
 Vout 18 Vcc 2A
 Dim. 185 x 100 x 77 mm

CODE 811 :

Vin 230 Vac 50/60 Hz
 Vout 18 Vdc 2A
 Dim. 185 x 100 x 77 mm

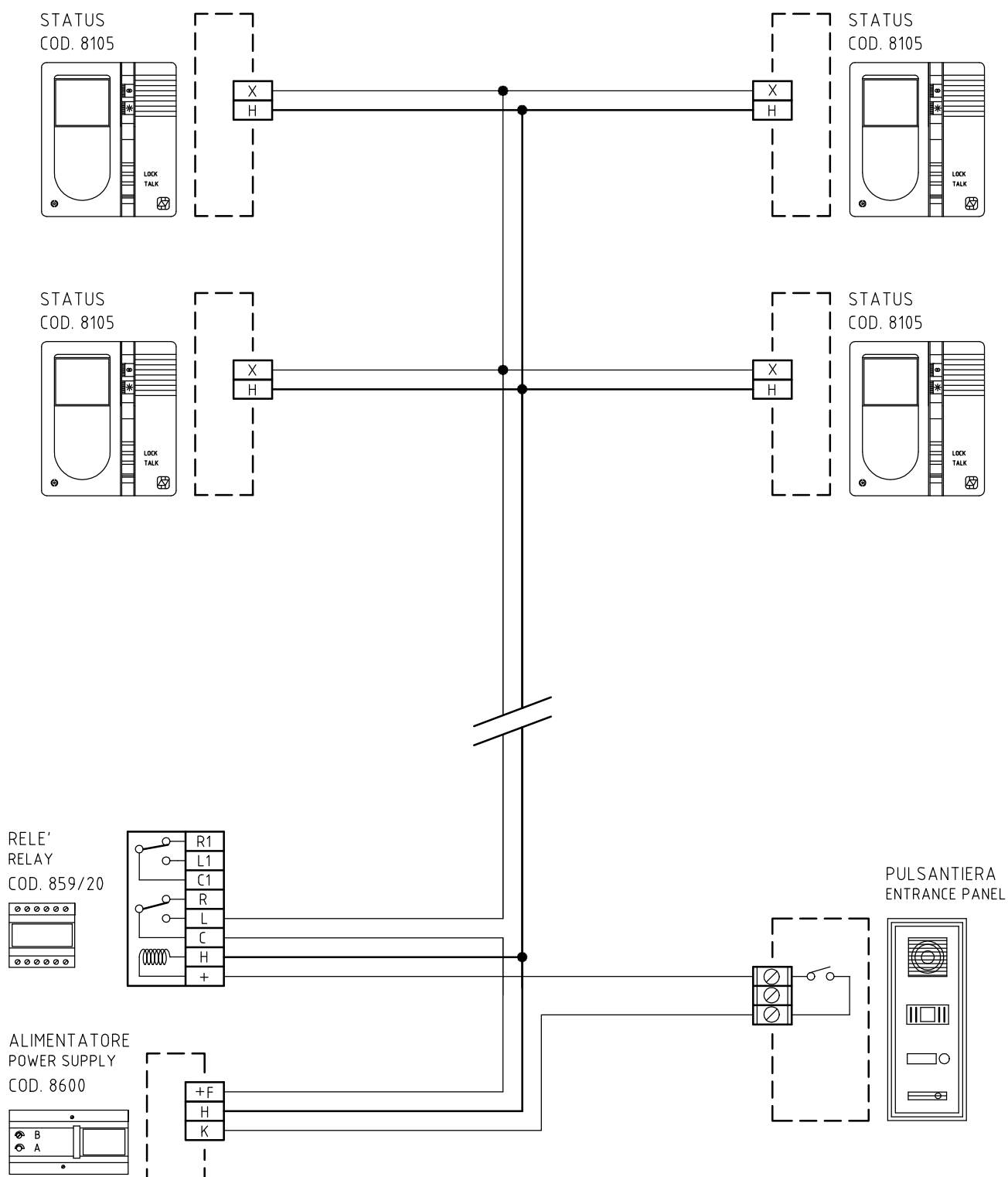
IMPORTANTE :

GLI ALIMENTATORI COD. 8600 E COD. 811 POSSONO ALIMENTARE MAX 2 MONITORI (E' INDISPENSABILE L'USO DEL DERIVATORE).

IMPORTANT :

THE POWER SUPPLY CODE 8600 AND CODE 811 SUPPLIES UP TO 2 MONITORS IN PARALLEL (DISTRIBUTOR IS NECESSARY).

COLLEGAMENTO CON PIU' CHIAMATE IN PARALLELO
 CALLING 4 OR MORE MONITORS IN PARALLEL



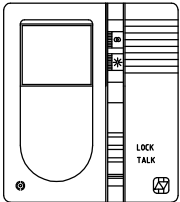
COD. 859/20 :

PORTATA 5A
 ALIMENTAZIONE 12 - 24 Vca - Vcc
 DIMENSIONI 70 x 86 x 71 mm

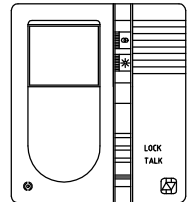
CODE 859/20 :

CURRENT 5A
 INPUT VOLTAGE 12 - 24 Vac - Vdc
 DIMENSION 70 x 86 x 71 mm

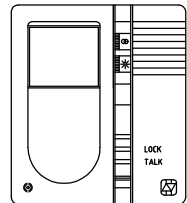
STATUS
COD. 8105



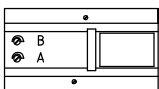
STATUS
COD. 8105



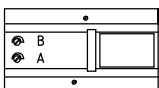
STATUS
COD. 8105



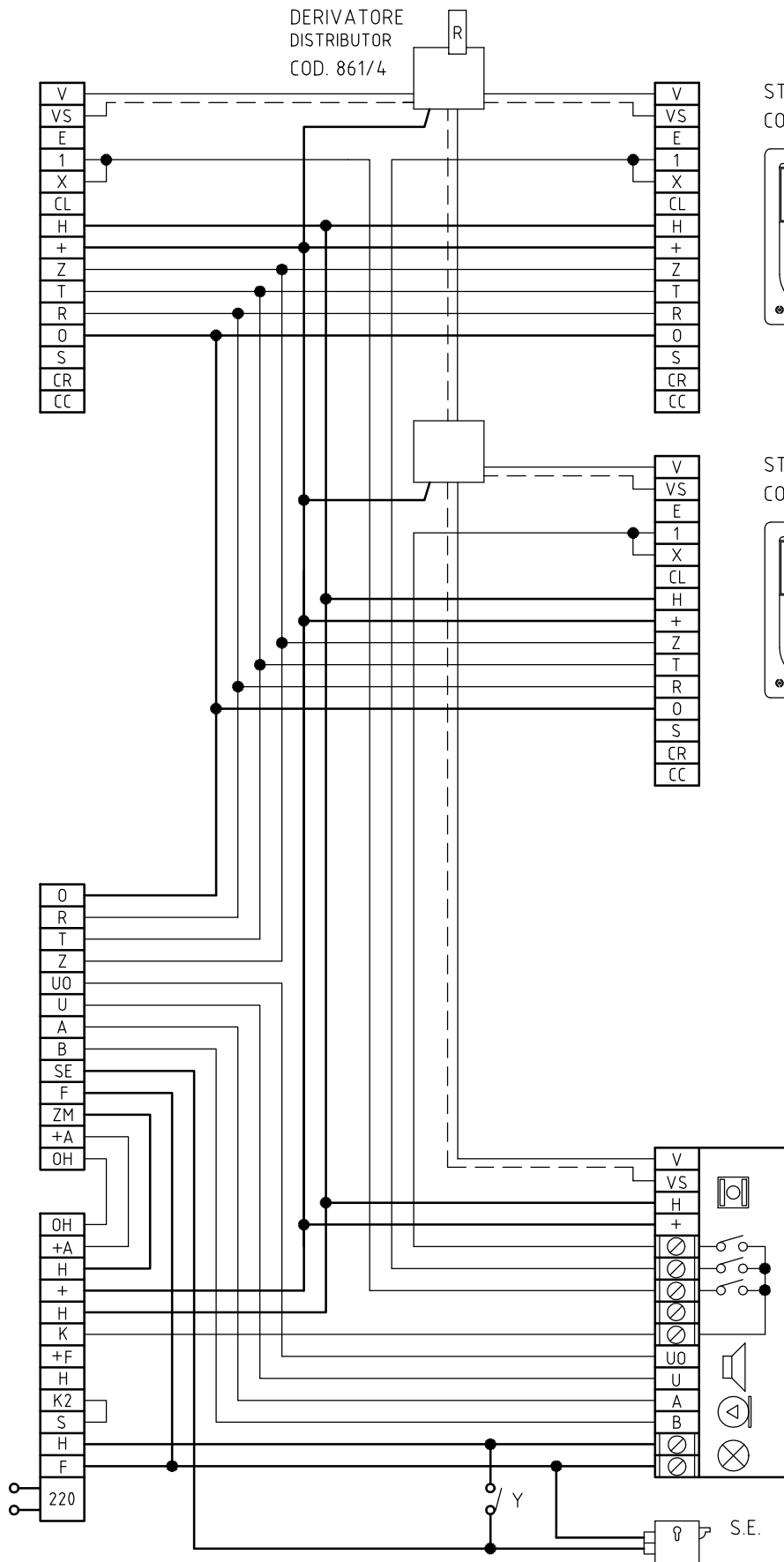
AMPLIFICATORE
AMPLIFIER
COD. 8610



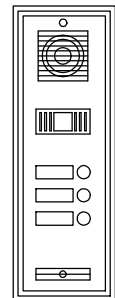
ALIMENTATORE
POWER SUPPLY
COD. 8600



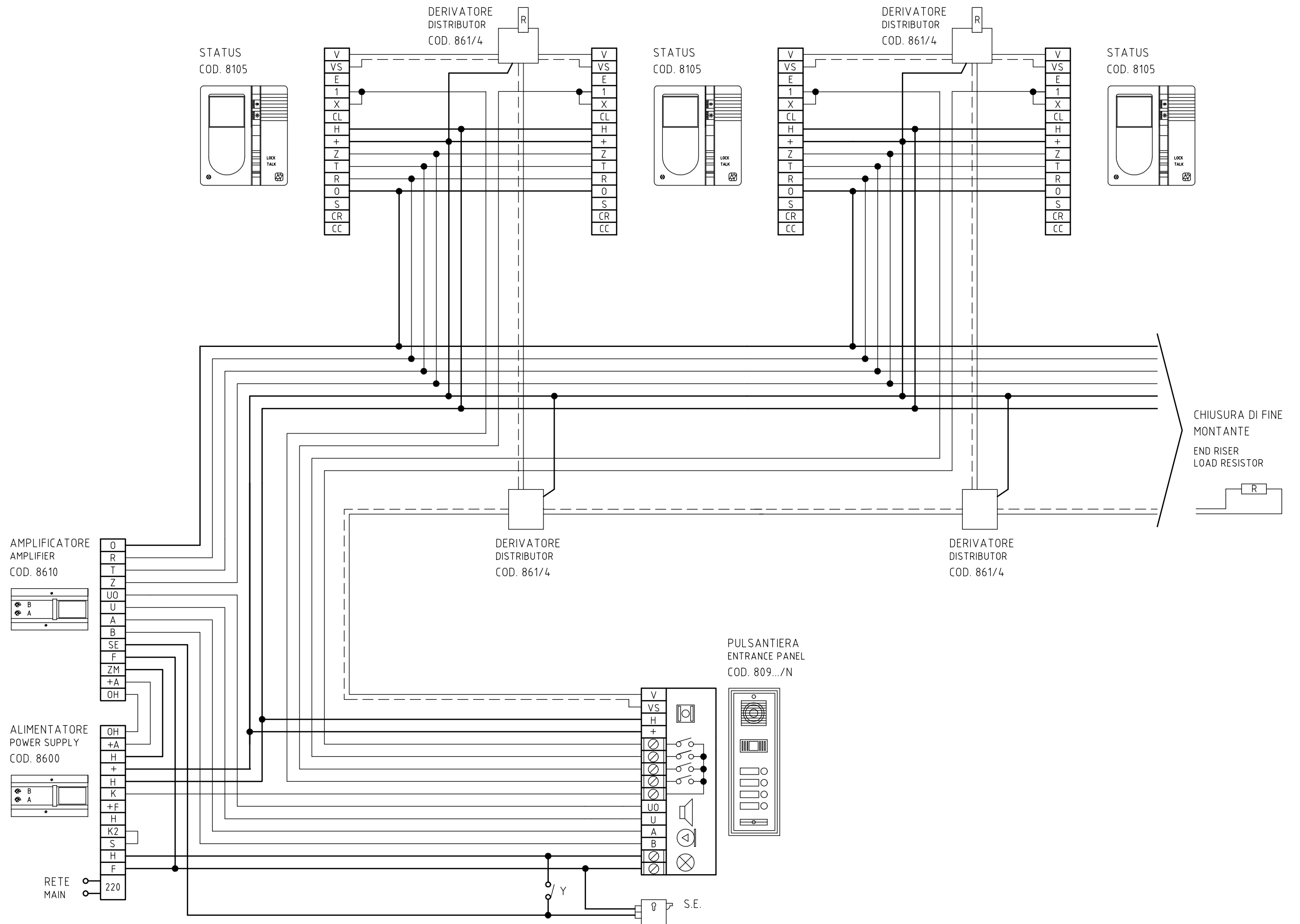
RETE
MAIN

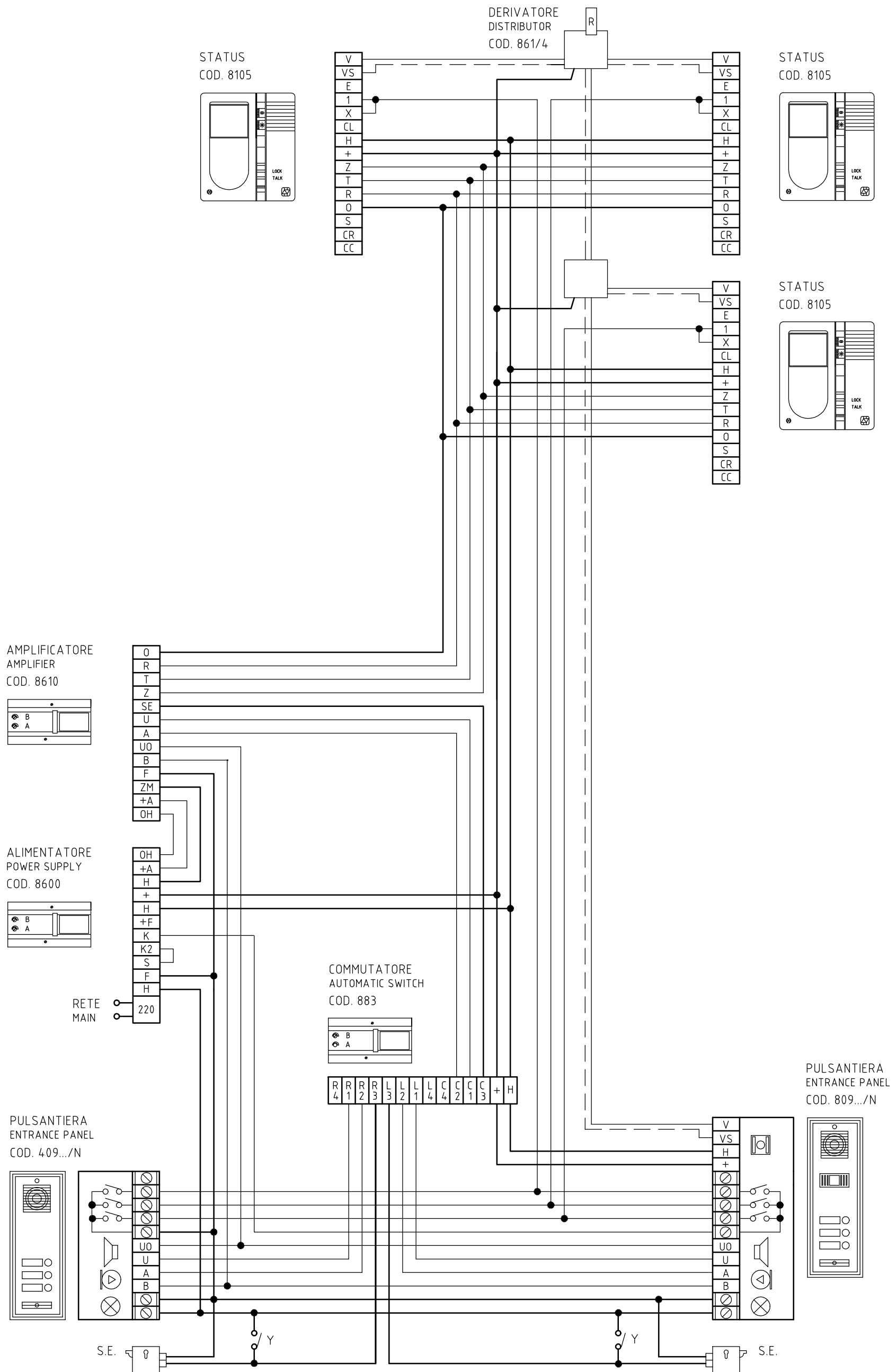


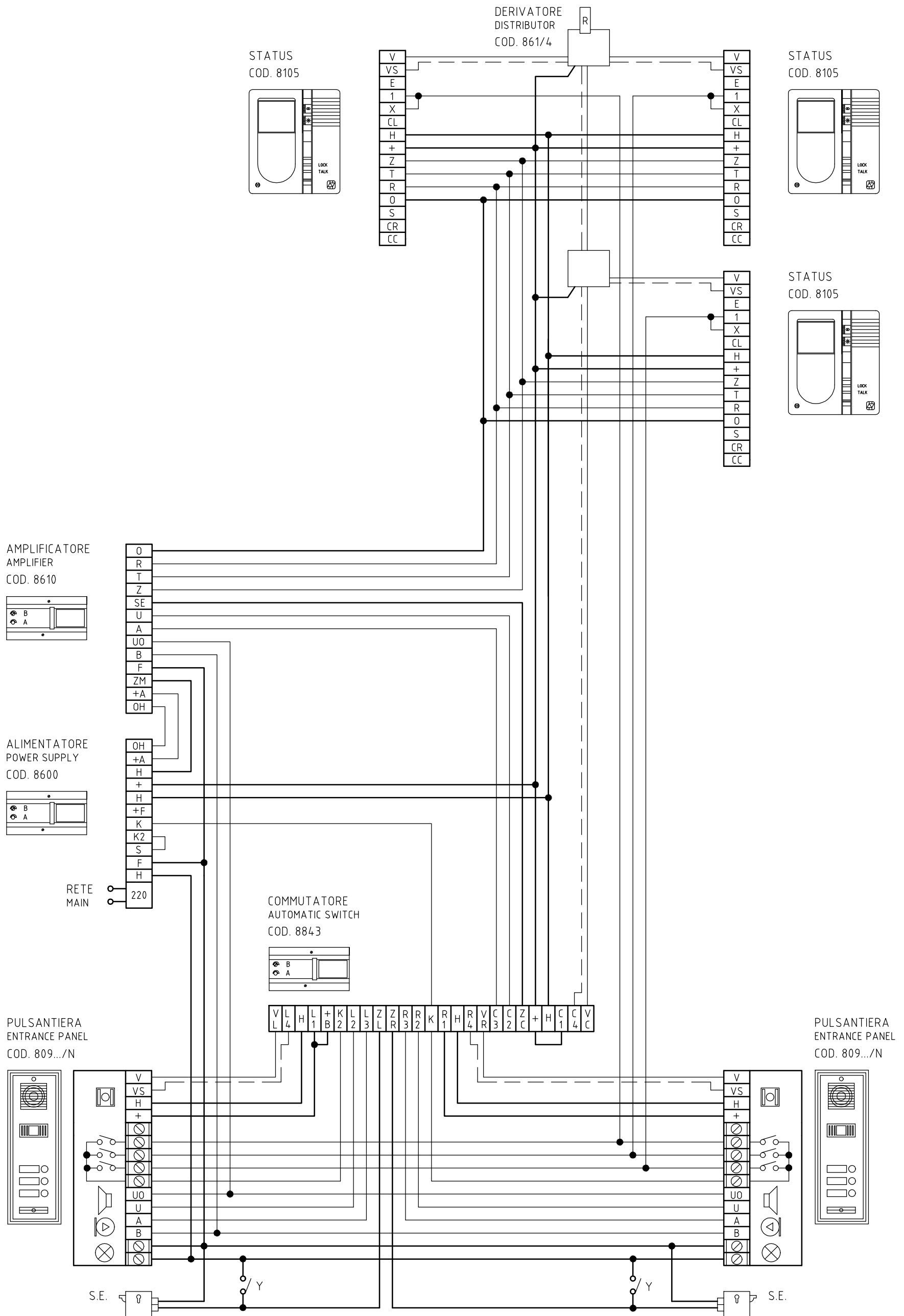
PULSANTIERA
ENTRANCE PANEL
COD. 809.../N

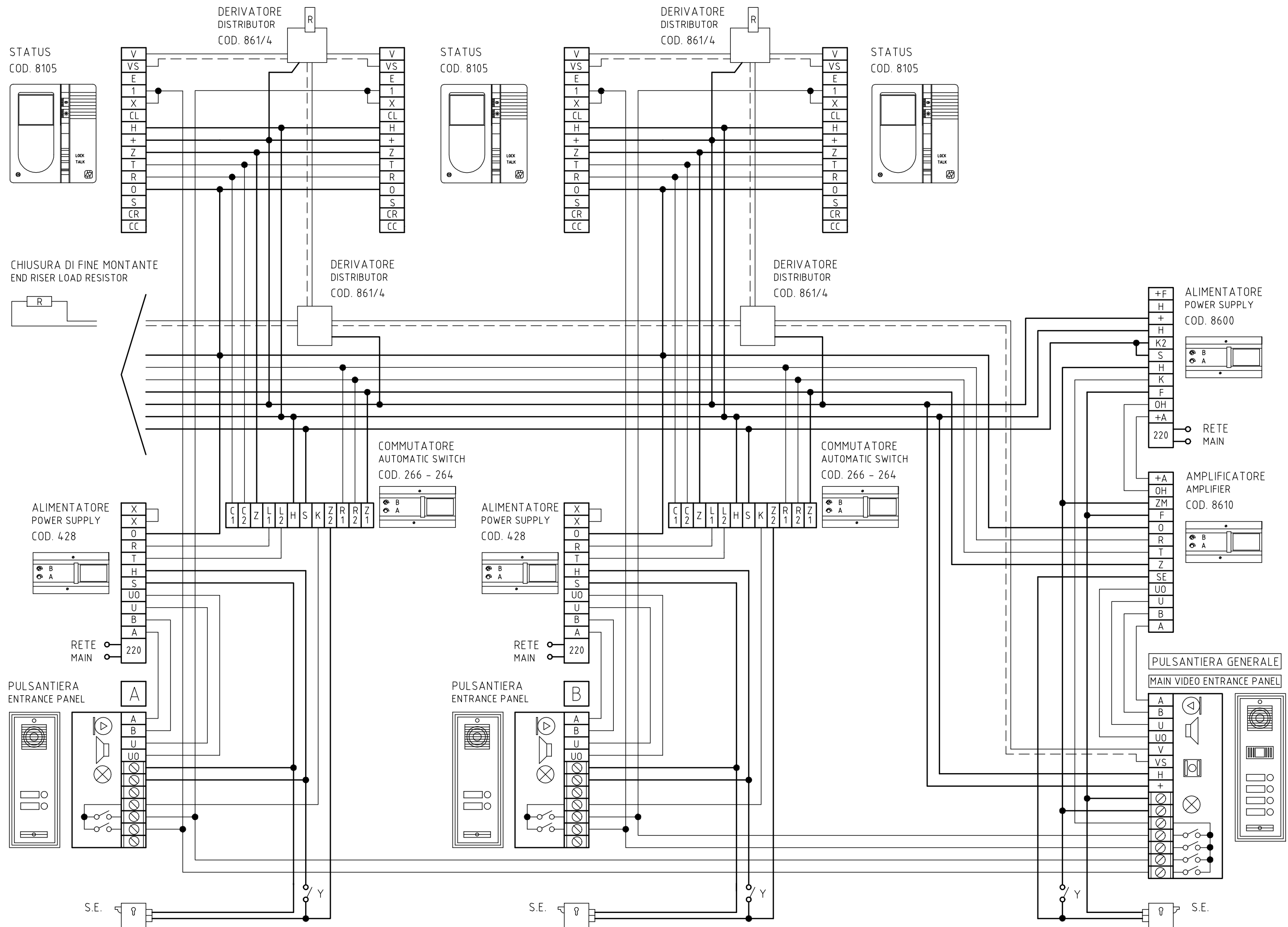


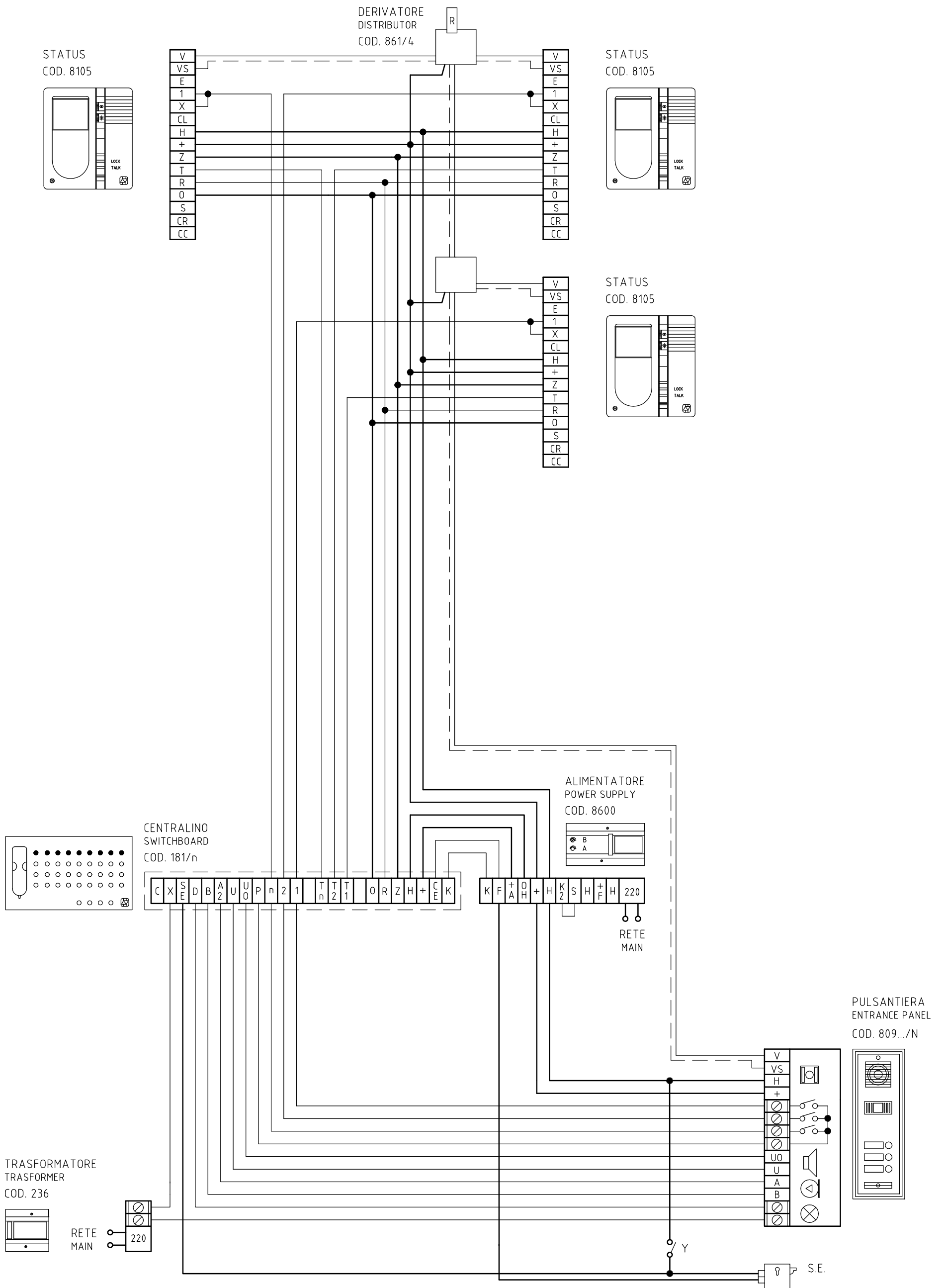
S.E.

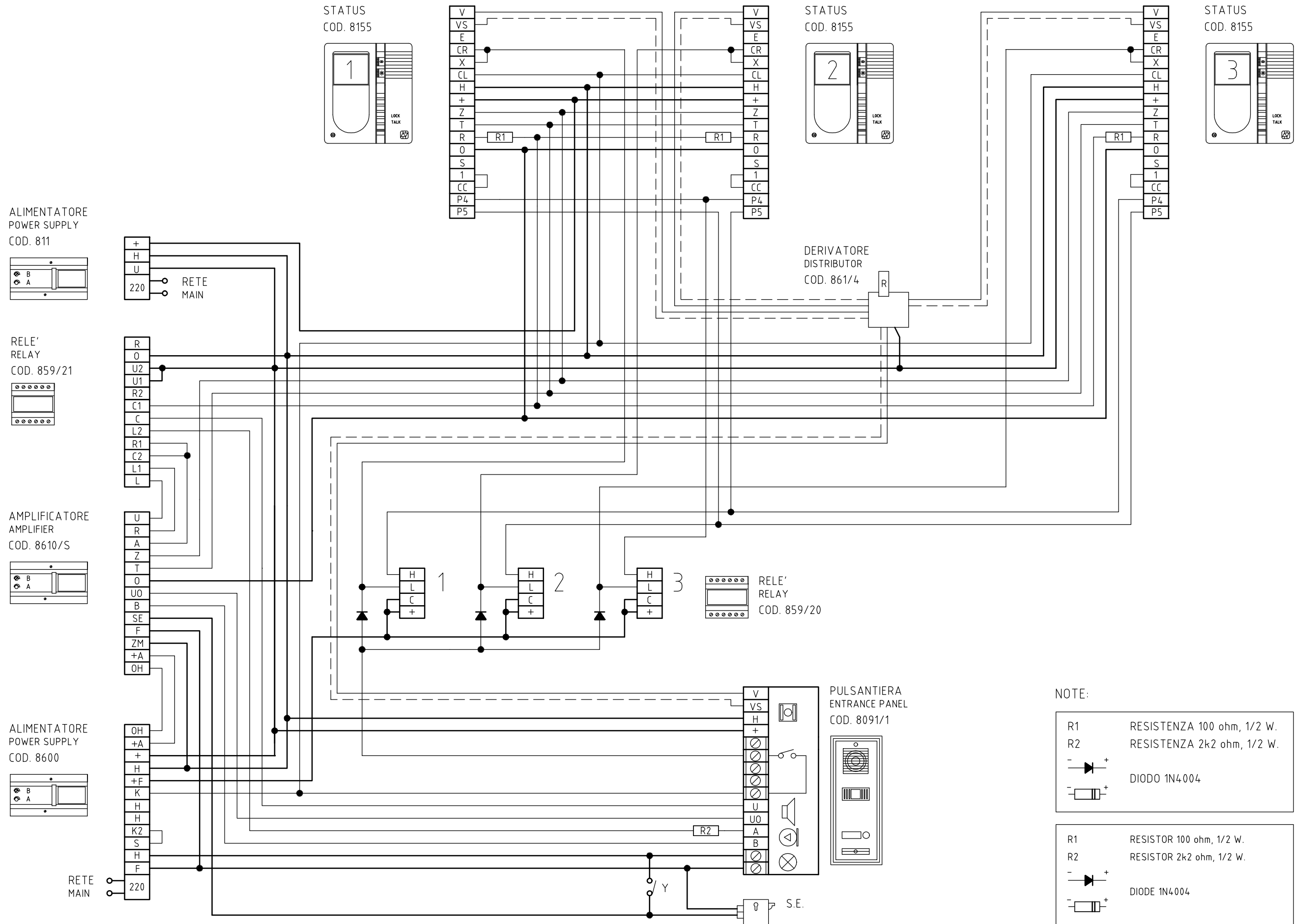










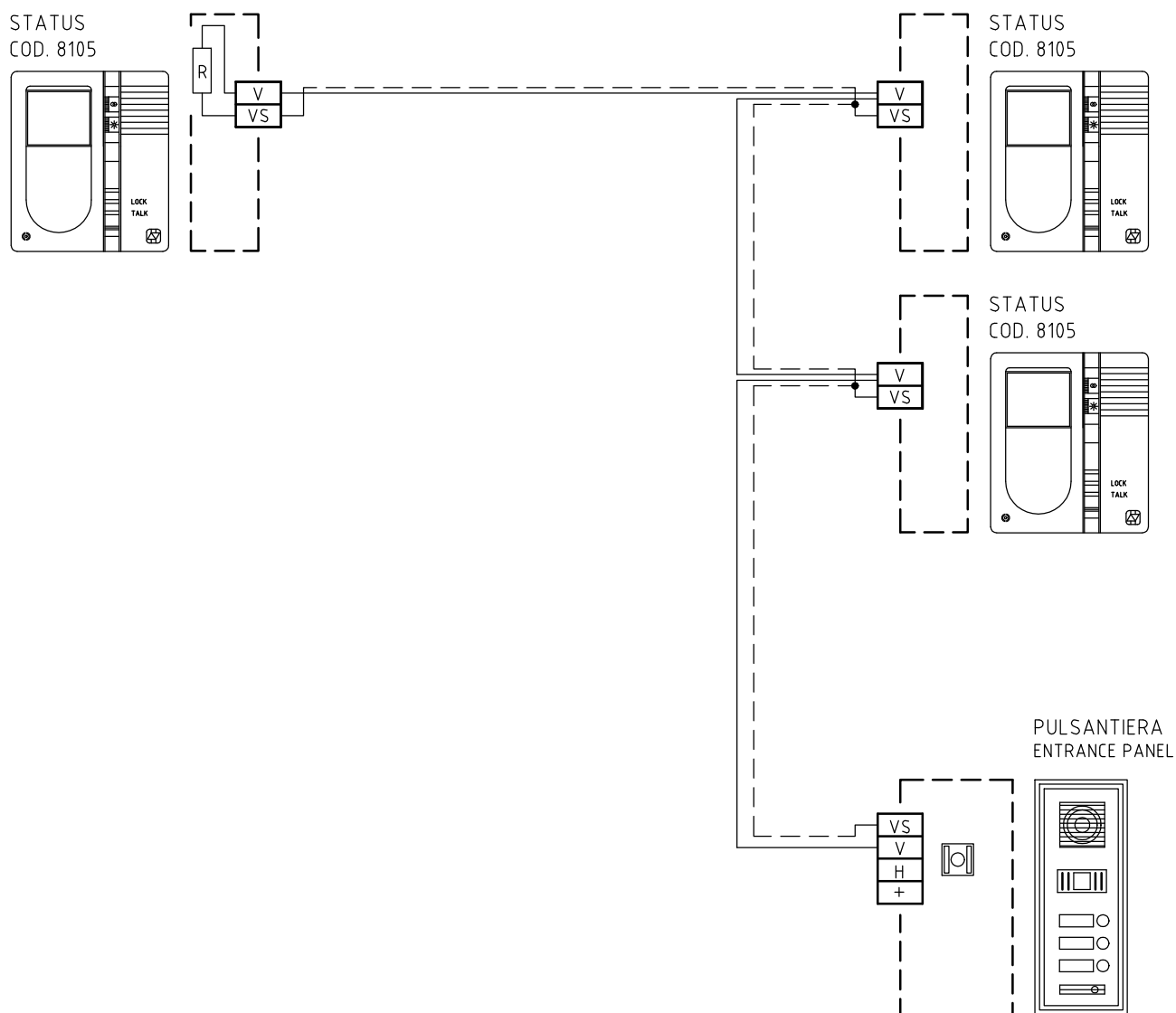


NOTE:

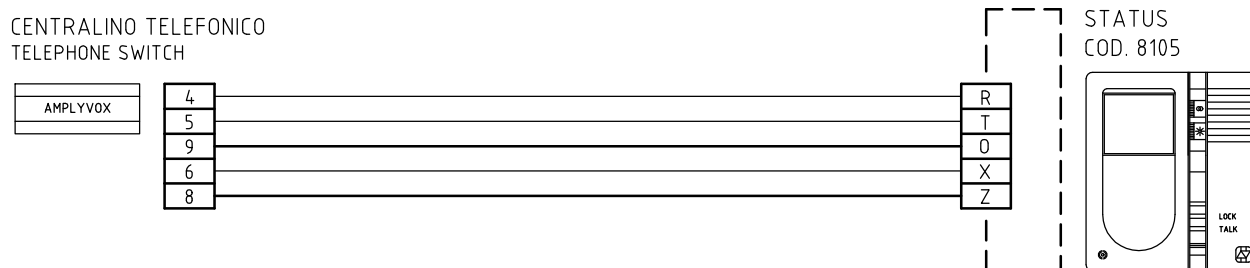
R1	RESISTENZA 100 ohm, 1/2 W.
R2	RESISTENZA 2k2 ohm, 1/2 W.
	DIODO 1N4004

R1	RESISTOR 100 ohm, 1/2 W.
R2	RESISTOR 2k2 ohm, 1/2 W.
	DIODE 1N4004

COLLEGAMENTO SERIALE DEL CAVO COASSIALE "ENTRA - ESCE"
 "IN - OUT" VIDEO CONNECTIONS



COLLEGAMENTO DI UN CENTRALINO TELEFONICO
 CONNECTION FOR "TELEDOOR"



NOTE :

ALL'INTERNO DEL CENTRALINO BISOGNA INSERIRE LA SCHEDA INTERFACCIA COD. 245/1
 MAKE SURE THAT THE INTERFACE PCB CODE 245/1 IS INSTALLED WITH IN THE TELEPHONE SWITCH

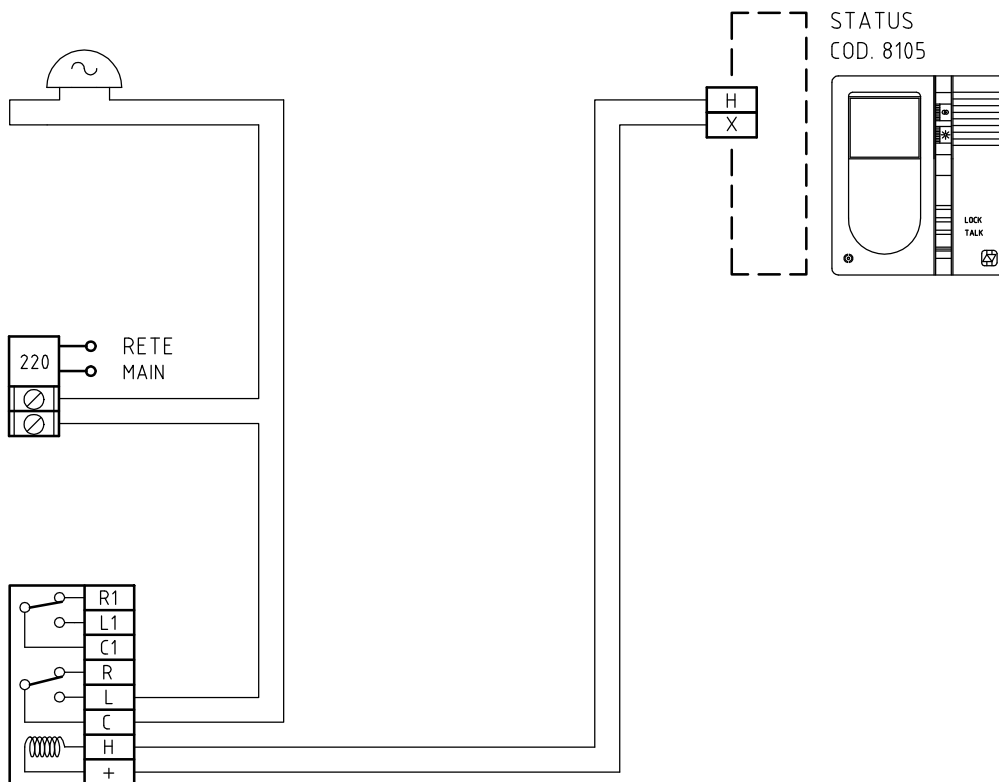
COLLEGAMENTO DI UNA SUONERIA SUPPLEMENTARE ESTERNA
 ADDITIONAL ELECTRIC BELL

SUONERIA
 ELECTRIC BELL
 12Vac MAX 1,5A

TRASFORMATORE
 TRANSFORMER
 COD. 236

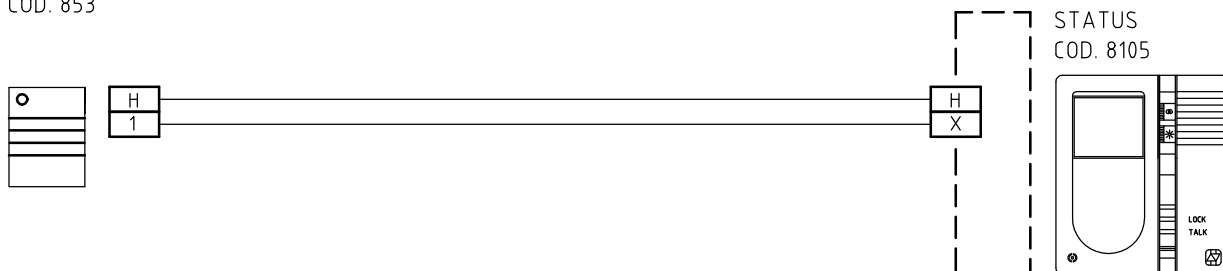


RELE' RELAY
 COD. 859/20

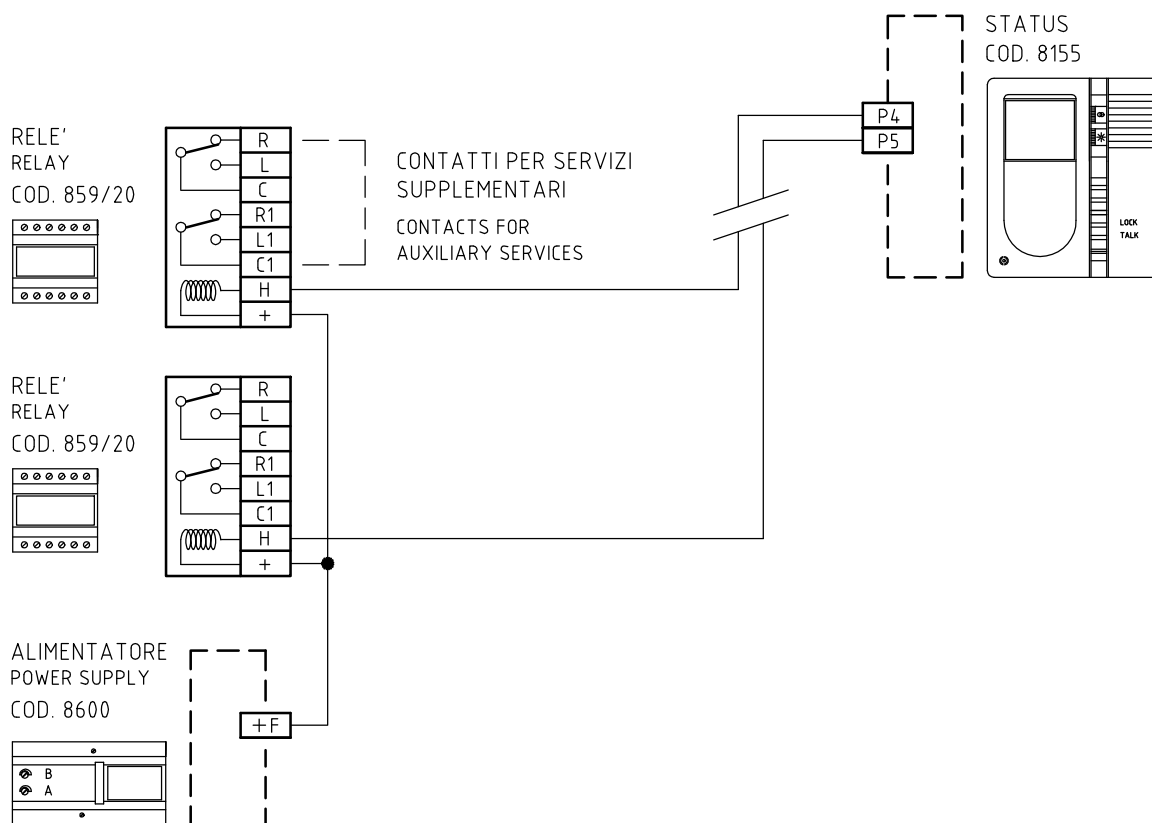


COLLEGAMENTO DI UNA SUONERIA COD. 853
 ADDITIONAL PIEZOELECTRIC BUZZER CODE 853

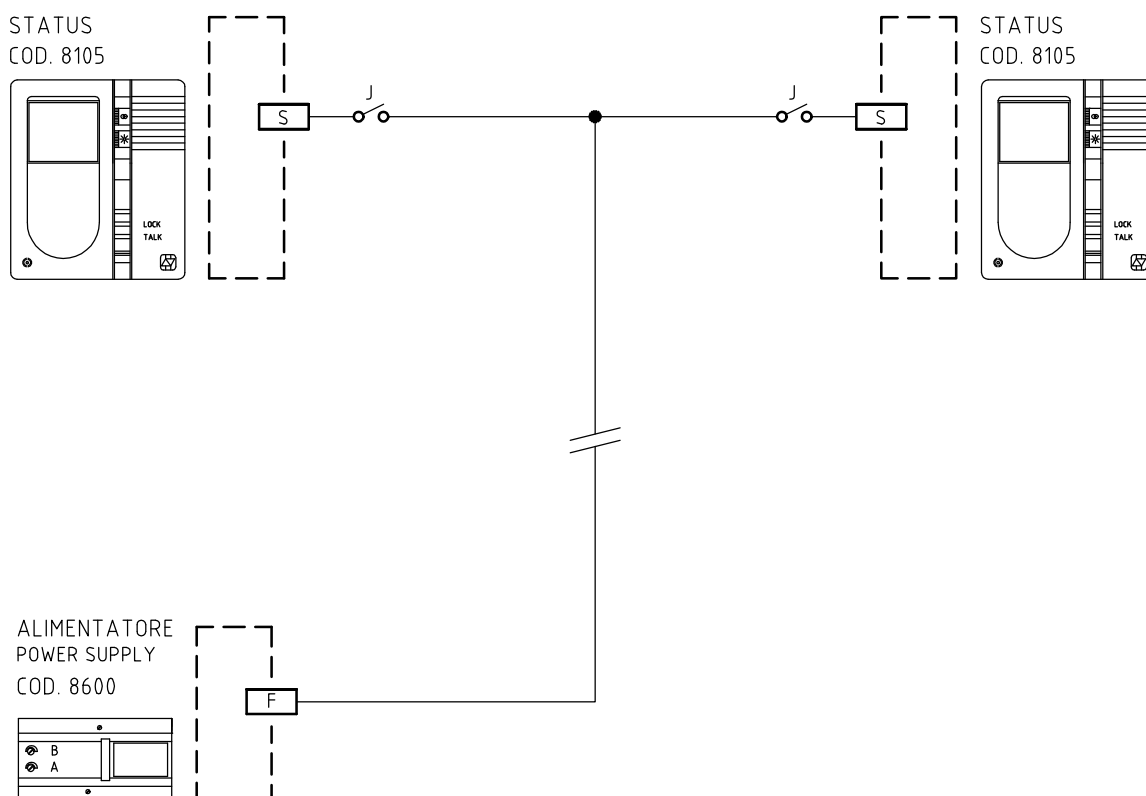
SUONERIA
 BUZZER
 COD. 853



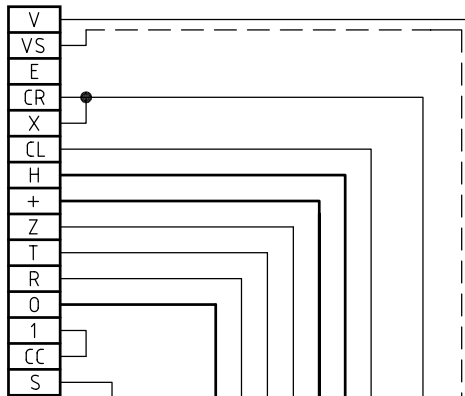
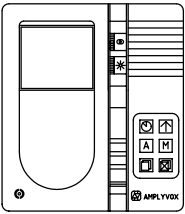
COMANDO RELE' INTERFACCIA PER SERVIZI SUPPLEMENTARI
 AUXILIARY RELAY BUTTON



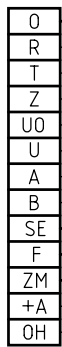
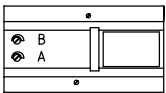
COLLEGAMENTO CHIAMATA DI PIANO
 APARTMENT ENTRANCE DOOR CALL



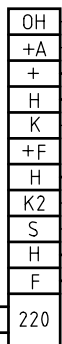
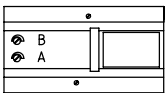
STATUS
COD. 8105/MV



AMPLIFICATORE
AMPLIFIER
COD. 8610



ALIMENTATORE
POWER SUPPLY
COD. 8600



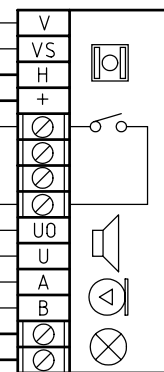
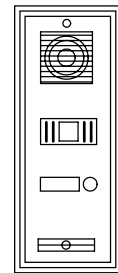
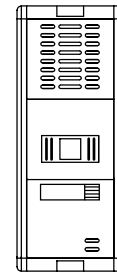
RETE
MAIN



PULSANTIERA
ENTRANCE PANEL

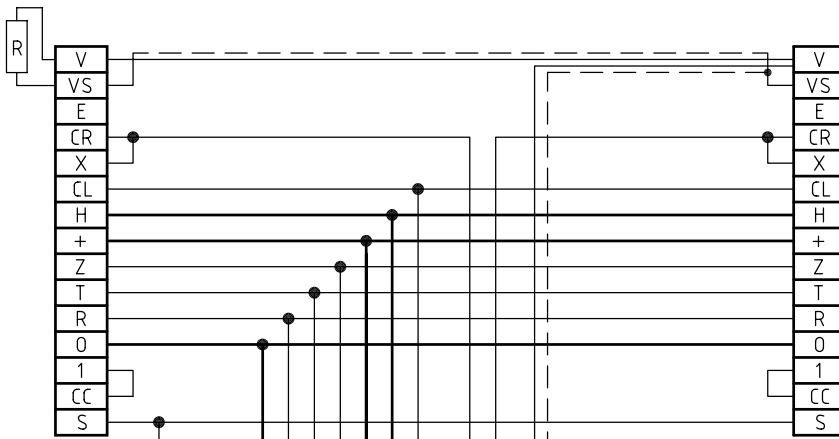
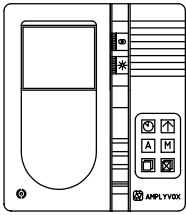
COD. 8700/P1

COD. 8091/1

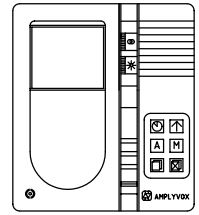


S.E.

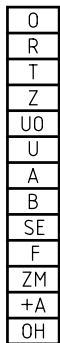
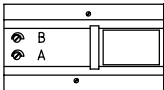
STATUS
COD. 8105/MV



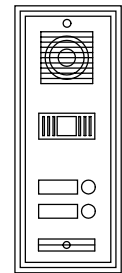
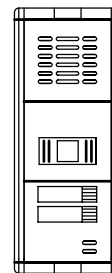
STATUS
COD. 8105/MV



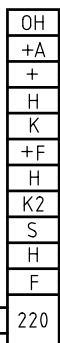
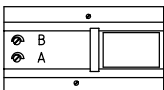
AMPLIFICATORE
AMPLIFIER
COD. 8610



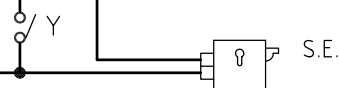
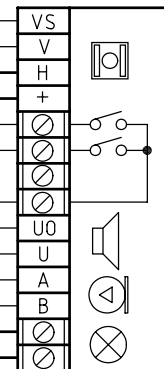
PULSANTIERA
ENTRANCE PANEL
COD. 8700/P2 COD. 8091/2

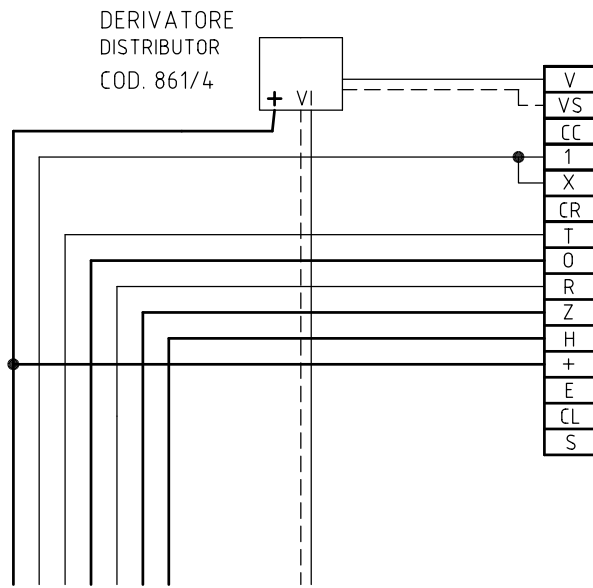


ALIMENTATORE
POWER SUPPLY
COD. 8600

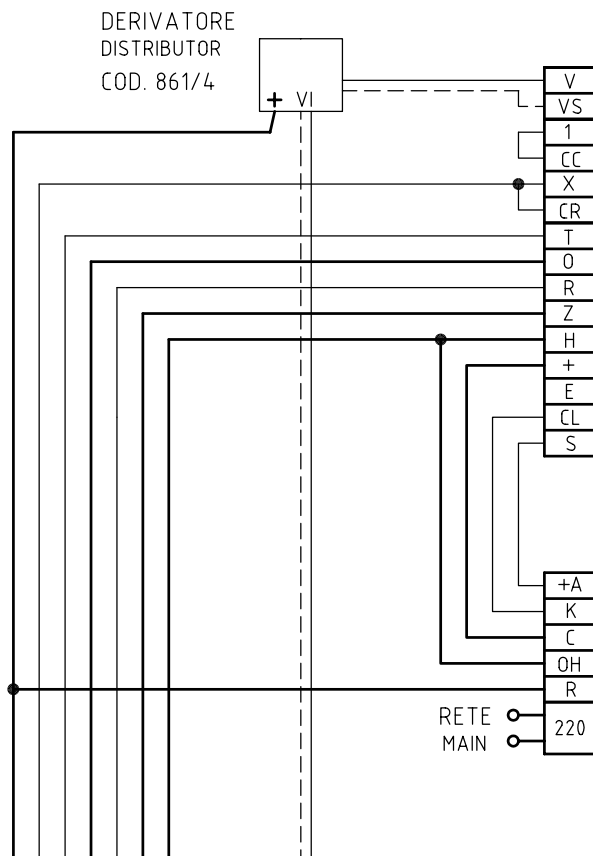
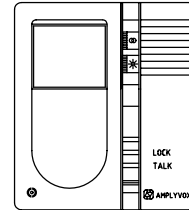


RETE
MAIN
220

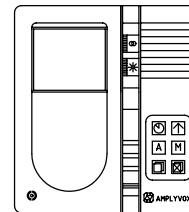




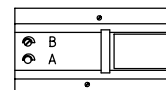
STATUS
COD. 8105

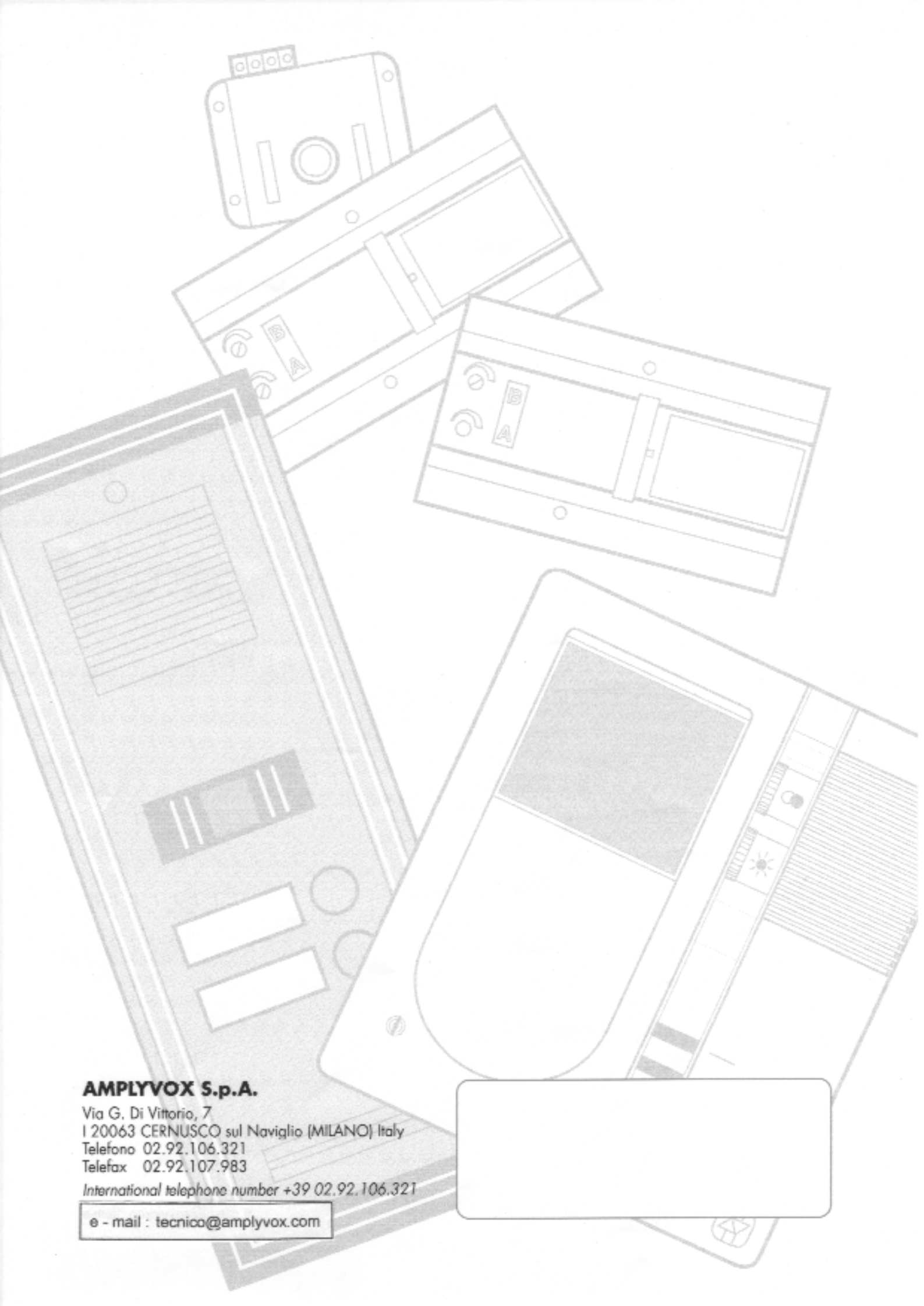


STATUS
COD. 8105/MV



ALIMENTATORE
POWER SUPPLY
COD. 8604





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