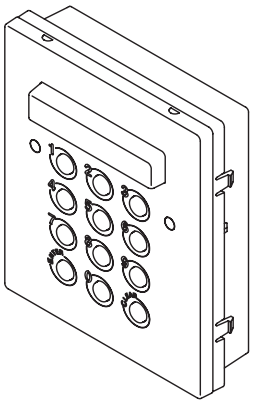
# Art. 4800 - 4800M
## 4000 Series digital codelock module



### CODELOCK UNIT MODULES ART.4800

The module features 12 stainless steel buttons (Keys **0** - **9**, **ENTER** and **CLEAR**), 2 LED's for progress information during use and programming and a mirror finish stainless steel front plate (Standard version). With three integral relays each with common, normally open and normally closed connections and two inputs to enable the external triggering of relays one and two (For example, push to exit button). Key presses are signalled both acoustically and visually while each button press has a tactile feel. Entering the correct code followed by ENTER will activate the relevant relay. Programming is carried out through the same keypad following a simple programming menu. The module can be combined with other 4000 Series modules in an audio or video intercom system.

### MAIN FEATURES

- 3 C, NC, NO relay outputs (24Vac/dc – 5A max);
- 3 Programmable secret codes (one for each relay);
- Each relay can be set to be activated for a specific time (01 to 99 seconds) or to work as latch;
- Two active low inputs to command directly the relay 1 and 2;
- Programming menu guarded by a 4-8 digit programmable engineer's code;
- Visual and Acoustic signal during operating and programming;
- Keypad illumination LEDs;

### GENERAL DIRECTIONS FOR INSTALLATION

- In order to achieve the best results from the schematics described it is necessary to install only original VIDEX equipment, strictly keeping to the items indicated on each schematic and follow these General Directions for Installation:
- The system must be installed according to national rules in force, in any case the running of cables of any intercom unit must be carried out separately from the mains;
- All multipair cables should be compliant to CW1308 specification (0.5mm twisted pair telephone cable).
- Cables for speech line and service should have a max resistance of 10 Ohm
- Lock release wires should be doubled up (Lock release wires and power supply wires should have a max resistance of 3 Ohm);
- The cable sizes above can be used for distances up to 50m. On distances above 50m the cable sizes should be increased to keep the overall resistance of the cable below the RESISTANCES indicated above;
- Double check the connections before power up;
- Power up the system then check all functions.

### LOCK RELEASE BACK EMF PROTECTION

A capacitor must be fitted across the terminals on AC lock release (Fig.1A) and a diode must be fitted across the terminals on a DC lock release (Fig.1B) to suppress back EMF voltages.
Connect the components to the lock releases as shown in figures.

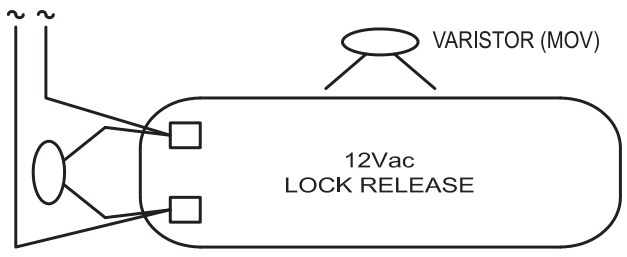



Fig.1A

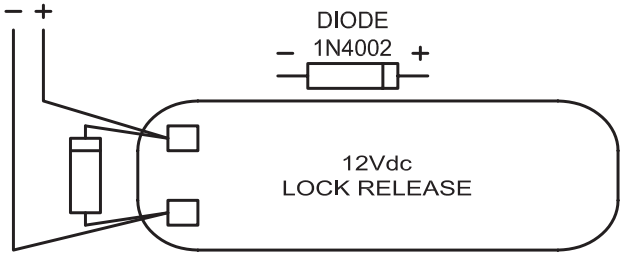



Fig.1B

### BUZZER BACK EMF

When using intercoms with buzzer call (Art.924/926, SMART1/2, 3101/2, 3001/2 and 3021/2) add one 0,1uF capacitor between terminals 3 and 6 on the telephone.

### BUILT-IN RELAYS – BACK EMF PROTECTION ART.4800M

The 4800M includes selectable back EMF protection on the relays. The jumpers marked MOV (One jumper for each relay) are used to select the protection type. When using a fail secure lock with connections C & NO the jumper should be in the NO position. When using a fail open lock with connections C & NC the jumper should be in the NC position and when using the codelock to trigger a gate controller or another third party controller the jumper should be removed completely (This disables the protection on the relay).

### PROGRAMMING (SEE ALSO THE RELEVANT FLOW CHART)

- Enter the "ENGINEER'S CODE": first time type six times "1" (111111 factory preset) and press **"ENTER"** (The red LED will illuminate);
- Confirm "ENGINEER'S CODE" (typing again the same) or type the new code (4 to 8 digits) then press **"ENTER"** (Melody). Pressing twice the **"ENTER"** button without changing the "ENGINEER'S CODE", will exit from the programming;
- Enter the code (4 to 8 digits) to enable "RELAY 1" or re-enter the existing code then press **"ENTER"** (Melody);
- Enter the "RELAY 1" operation time (2 digits 01 to 99 I.E. 05=5 seconds, 00= remain open time) or re-enter the existing time then press **"ENTER"** (Melody);
- Enter the code (4 to 8 digits) to enable "RELAY 2" or re-enter the existing code then press **"ENTER"** (Melody);
- Enter the "RELAY 2" operation time (2 digits 01 to 99 I.E. 05=5 seconds, 00= remain open time) or re-enter the existing time then press **"ENTER"** (Melody);
- Enter the code (4 to 8 digits) to enable "RELAY 3" or re-enter the existing code then press **"ENTER"** (Melody);
- Enter the "RELAY 3" operation time (2 digits 01 to 99 I.E. 05=5 seconds, 00= remain open time) or re-enter the existing time then press **"ENTER"** (Melody);
- The system is ready to use (the red LED will be off).

### PROGRAMMING NOTES

- After pressing enter following a command, press **ENTER** a further twice to exit the programming menu.

### RETURN SYSTEM TO PRESET ENGINEER'S FACTORY CODE

- Turn off power to code lock;
- Keep **"ENTER"** button pressed while turning the power back on;
- Release **"ENTER"** button;
- The engineer's code is now set to **"111111"** (six times one).

### OPERATION

- Type in the programmed code and press **"ENTER";**
- If the code is correct, the green LED will illuminate for approx. 2 seconds and the relay relevant to the code will operate for the programmed time;
- If a wrong code is entered, a continuous melody will sound for 4 or more seconds, according to the number of mistakes;
- To switch off any relay while operating, type in the relevant code then press the **"CLEAR"** button;

### OPERATION NOTES

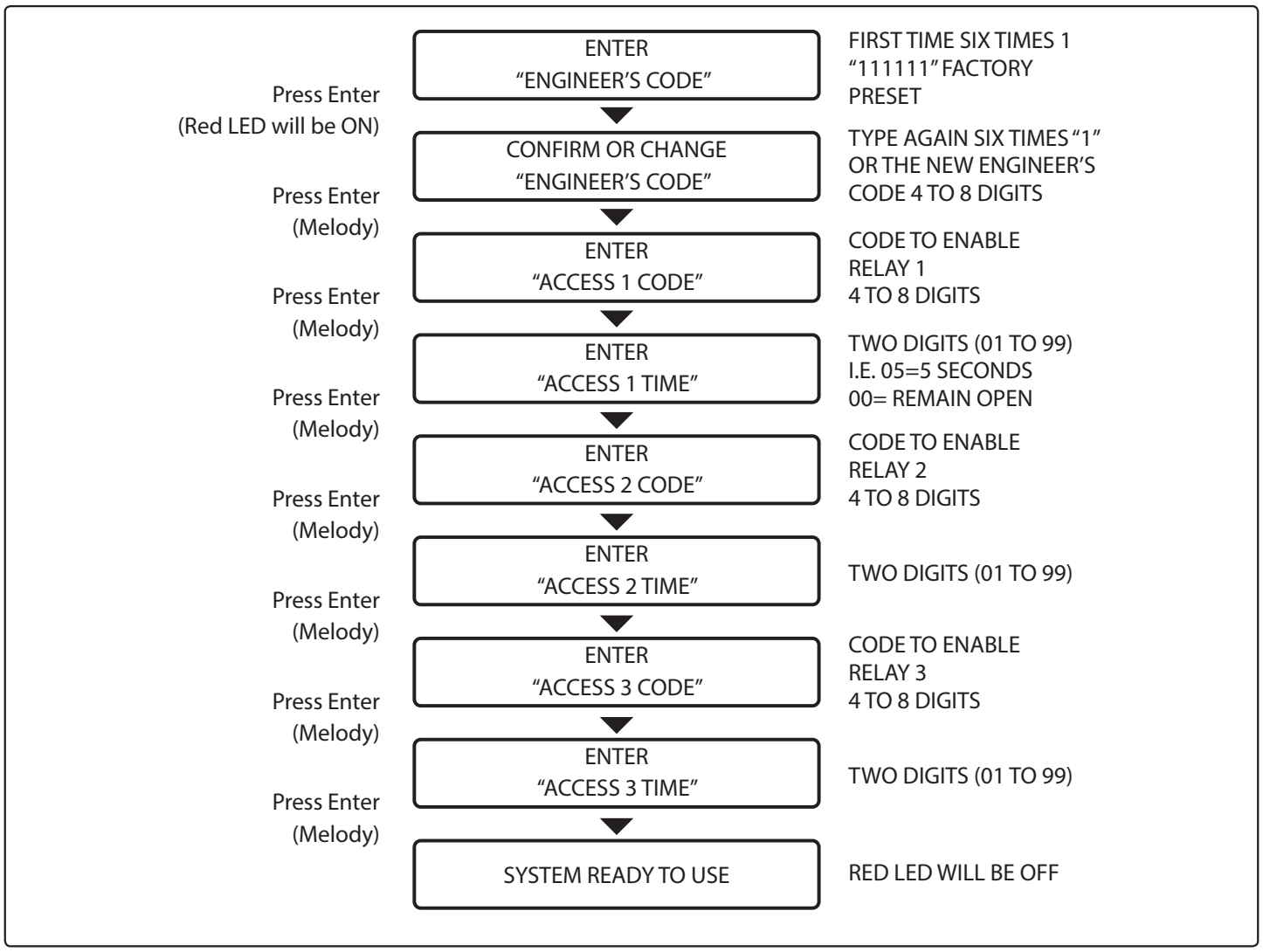
- To operate relays together, set the same code for each relay;
- If a wrong code is entered, the system will lock out for 5 seconds which will increase each time a wrong code is entered. The system will operate only when the correct code is entered.

| TERMINALS | |
|---|---|
| **SW2** | Relay 2 command signal (active low) |
| **SW1** | Relay 1 command signal (active low) |
| **NC3** | Relay 3 normally closed contact |
| **NO3** | Relay 3 normally open contact |
| **C3** | Relay 3 common contact |
| **NC2** | Relay 2 normally closed contact |
| **NO2** | Relay 2 normally open contact |
| **C2** | Relay 2 common contact |
| **NC1** | Relay 1 normally closed contact |
| **NO1** | Relay 1 normally open contact |
| **C1** | Relay 1 common contact |
| **-** | 12/24Vac/dc power input |
| **+** | |

## TECHNICAL SPECIFICATION

Power Supply: 12/24 Vac/dc – 2VA
Power Consumption: 50mA max
Working Temperature: -10 +50° C

## FLOW CHART




## COSTUMER SUPPORT

All Countries:
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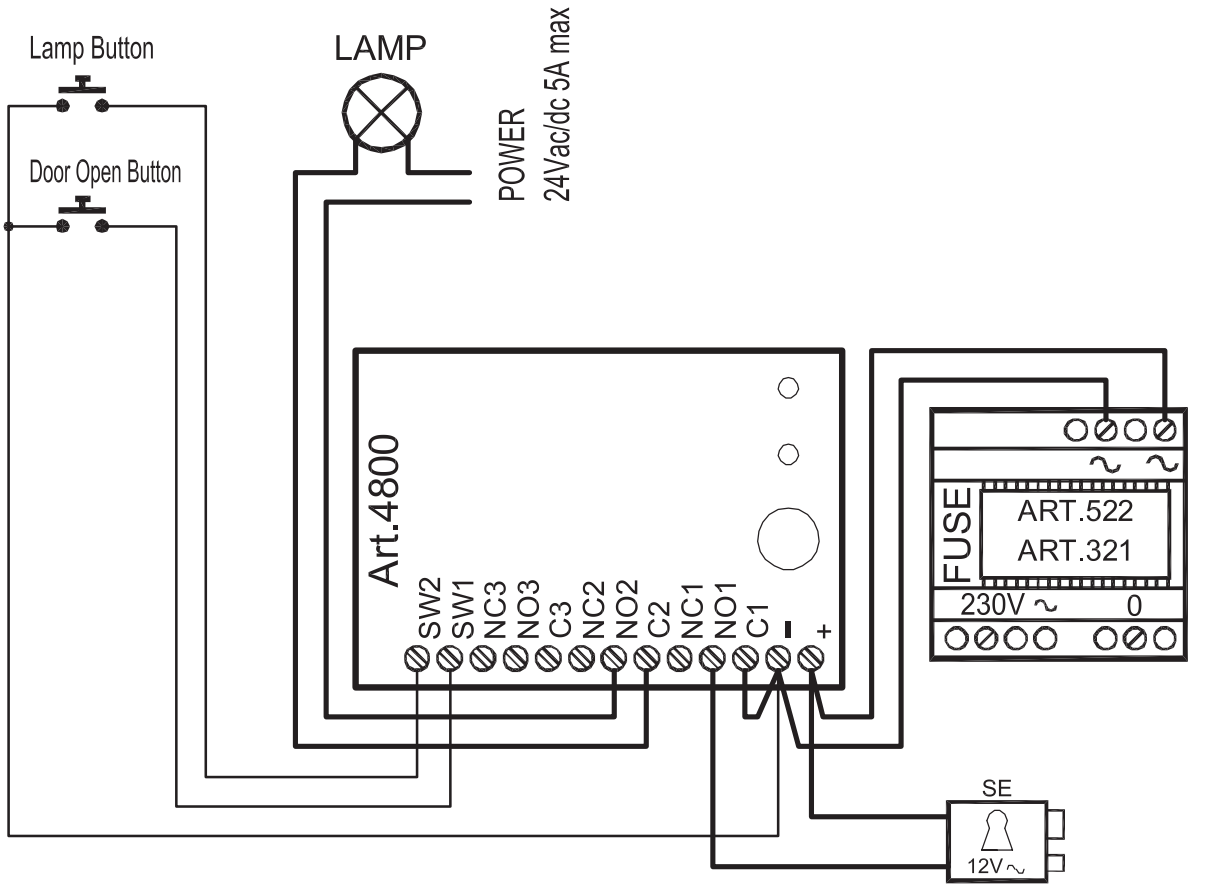
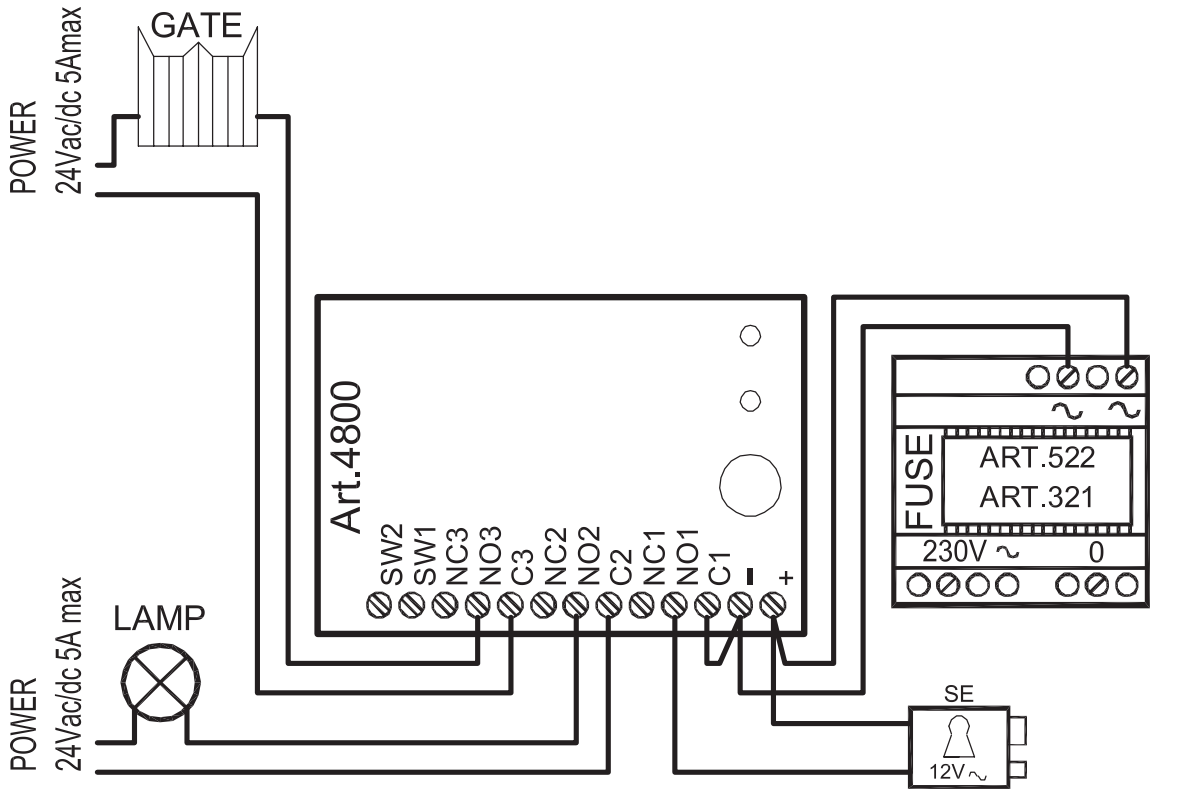
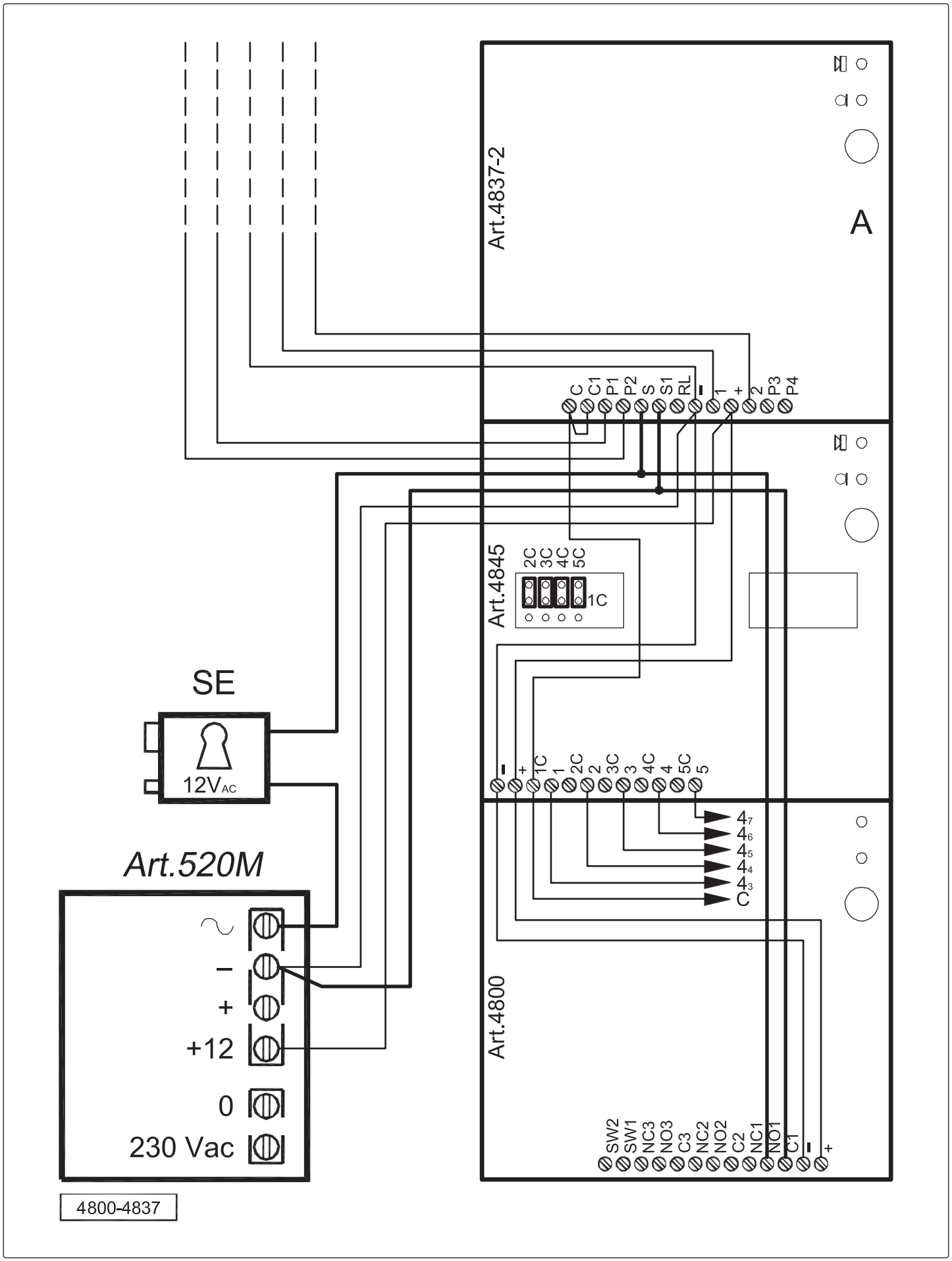
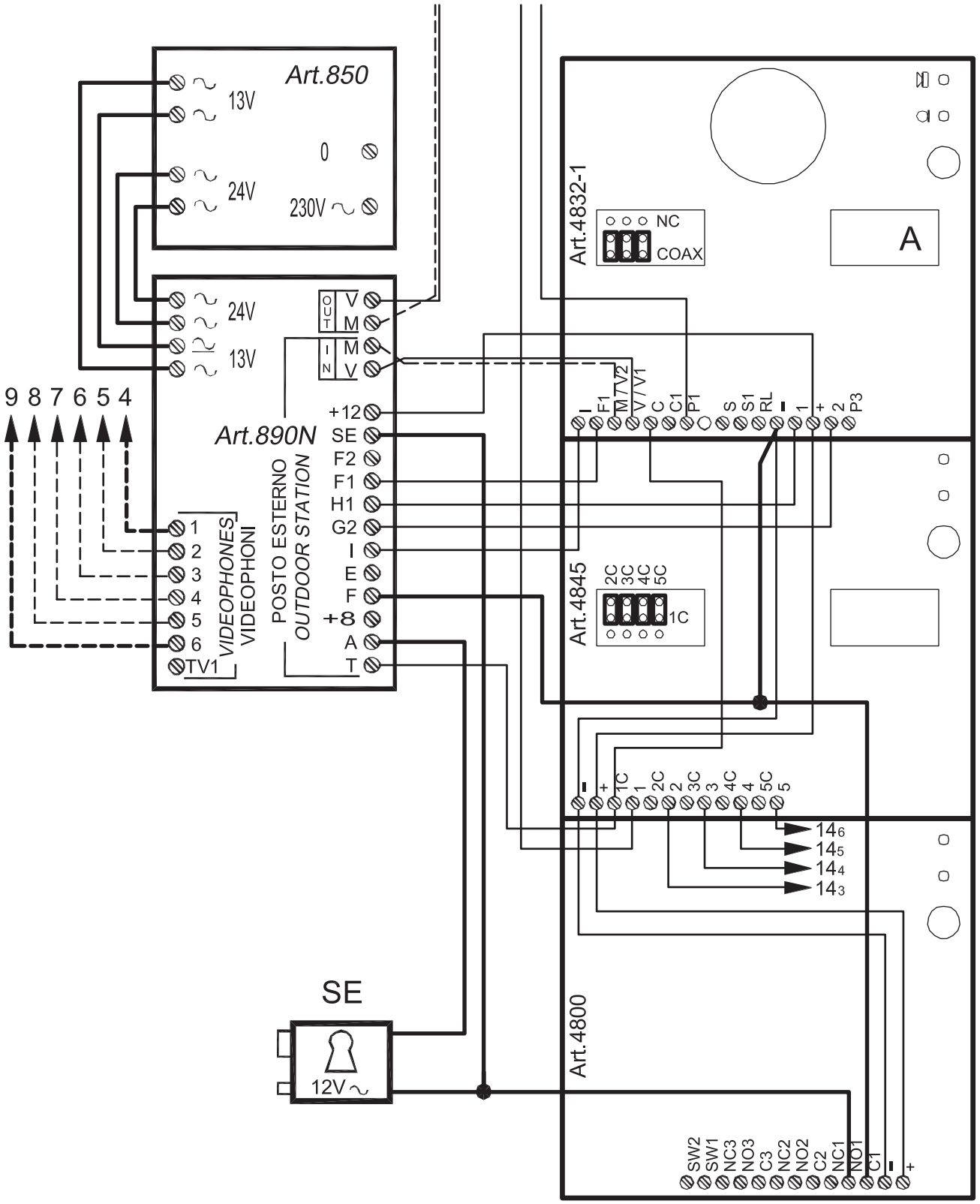
The product is CE marked demonstrating its conformity and is for distribution within all member states of the EU with no restrictions. This product follows the provisions of the European Directives 2004/108/ECC (EMC); 2006/95/ECC (LVD) and 93/68/ECC (CE marking).


Lamp Button
Door Open Button
LAMP
POWER
24Vac/dc 5A max
Art.4800
SW2
SW1
NC3
NO3
C3
NC2
NO2
C2
NC1
NO1
C1
+
FUSE
ART.522
ART.321
230V ~
0
SE
12V ~

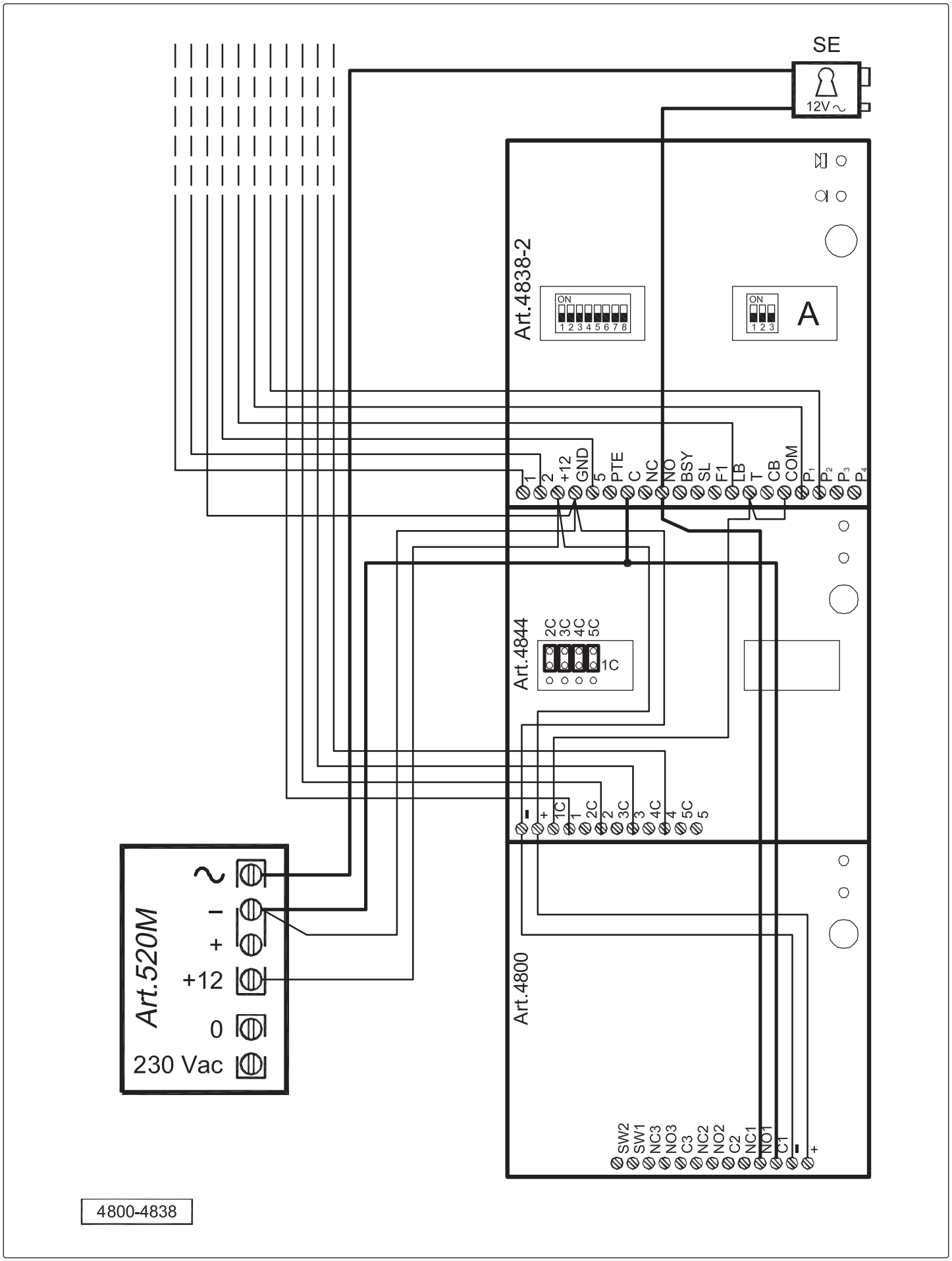

GATE
POWER
24Vac/dc 5Amax
Art.4800
SW2
SW1
NC3
NO3
C3
NC2
NO2
C2
NC1
NO1
C1
+
FUSE
ART.522
ART.321
230V ~
0
LAMP
POWER
24Vac/dc 5A max
SE
12V ~

4800


Art.4837-2
A
C
C1
P1
P2
S
S1
RL
-
1
+
2
P3
P4
Art.4845
2C
3C
4C
5C
1C
SE
12VAC
Art.520M
–
+
+12
0
230 Vac
-
+
1C
1
2C
2
3C
3
4C
4
5C
5
47
46
45
44
43
C
Art.4800
SW2
SW1
NC3
NO3
C3
NC2
NO2
C2
NC1
NO1
C1
-
+
4800-4837


Art.850
13V
0
24V
230V
24V
13V
9 8 7 6 5 4
Art.890N
+12
SE
F2
F1
H1
G2
I
E
F
+8
A
T
1
2
3
4
5
6
TV1
VIDEOPHONES
VIDEOFONI
POSTO ESTERNO
OUTDOOR STATION
Art.4832-1
NC
COAX
A
Art.4845
1C
Art.4800
SE
12V
146
145
144
143
SW2
SW1
NC3
NO3
C3
NC2
NO2
C2
NC1
NO1
C1

4800-4832


SE
12V ~
Art.4838-2
ON
1 2 3 4 5 6 7 8
ON
1 2 3
A
1 2 +12 GND 5 PTE C NC NO BSY SL F1 LB T CB COM P1 P2 P3 P4
Art.4844
2C 3C 4C 5C
1C
- + 1C 1 2C 2 3C 3 4C 4 5C 5
Art.4800
SW2 SW1 NC3 NO3 C3 NC2 NO2 C2 NC1 NO1 C1 - +
Art.520M
~
-
+
+12
0
230 Vac
4800-4838