



### DESCRIPTION

Stabilized power supply 13.5Vdc 1A max - 13.5Vac 1A (peak value) with backup battery. Specific for use in digital and access control systems. It is built in a 9 modules DIN box type A (157.5mm), can be installed on a DIN bar or fixed to the wall by using 2 screws and screw anchors by the 2 holes diameter = 4.2mm. (Ref. A Fig. 1) situated on the base of the box.

### ⚠ CONNECTION TO MAINS AND POWER SUPPLY MOUNTING INSTRUCTIONS

The system must be installed only by a competent engineer and according to national rules in force and installation diagrams proposed (if provided), in particular we recommend to:

- Connect the system to the mains through an **all-pole circuit breaker** which shall have contact separation of at least 3mm in each pole and shall disconnect all poles simultaneously;
- The **all-pole circuit breaker** shall be placed for easy access and the switch shall remain readily operable.

### POWER SUPPLY INSTALLATION

- Remove the terminal side covers by unscrewing the retaining screws;
- Fix the power supply to a DIN bar or directly to the wall using two expansion type screws;
- Switch off the mains using the circuit breaker mentioned above and then make the connections as shown on the installation diagrams;
- Check the connections and secure the wires into the terminals;
- Replace the terminal covers and fix them using the relevant screws;
- When all connections are made, restore the mains.

### OPERATION

The power supply Art. 521B can be fed by 115 or 230Vac 50/60Hz mains tension, it has two outputs: 13.5Vdc (between the terminals “+” and “-”) normally used to supply the front panels and 13.5Vac (between the terminals “~” and “~”) specific for electric locks. For the maintaining of the 13.5Vdc output in case of mains failure, a rechargeable backup battery can be connected (between the terminals “-” and “+B”). The Art. 521B includes terminals to connect (between the terminals “SW SW”) a switch that turns on and off the output tension 13.5Vdc. If no switch is used between “SW SW” terminals it is necessary to put a link between these terminals. In case of mains failure, the back-up battery starts working to keep the output 13.5Vdc constant. The endurance of the battery is variable according to the type used and to the load connected to this unit. When the tension of the battery decreases more than 15% of its nominal value (battery discharged), the logic controller deactivates the 13.5Vdc output automatically (to avoid battery depletion). To switch off the system supplied by the Art. 521B, disconnect the 230Vac and turn off (or remove the link) the switch connected between the terminals “SW SW” to avoid switching to the battery backup..

TERMINALS	
<b>220 0 115</b>	Tension input 230Vac +6% -10%
<b>~ ~13V</b>	13.5Vac +6% - 10% - 1.6A pulse output (specific for electric locks)
<b>+ -</b>	13.5Vdc 0.8A Continuous 1Amax output
<b>+B -</b>	13.8Vdc 100mA battery recharge input
<b>SW SW</b>	13.5Vdc output ON/OFF switch

#### ELECTRICAL DATA

**Tension:** 115-230Vac +6% -10% - 50/60Hz  
**Output tension:** 13Vac +6% -10% 1.6A pulse  
 (specific for electric locks)  
 13.5Vdc 0.8A continuous -1Amax

#### PROTECTIONS

F1 (1A T) = short circuit 13.5Vdc

F2 (2A T) = external backup battery

Internal restorable protection PTC 1.5A for 13Vac lock. In case of damage or short circuit, to restore the internal protection: switch off for 1 minute and during that time eliminate the cause of the short. In case of fuses damage, each fuse must be replaced with equivalent value.

To replace fuses, proceed as follows:

- Switch off the system.
- On the side marked by reference "**B**" (**Fig. 1**), remove the terminals cover by unscrewing the relevant screw;
- Replace the damaged fuse with an equivalent one;
- Put the terminals cover back and fix it screwing the relevant screw.

#### MECHANICAL DATA

**Dimensions:** 157.5 x 65 x 105mm

All terminals allow the fixing of several wires for a total diameter of 2.5mm.

#### WORKING CONDITIONS

**Temperature:** -10 +50° C

**Maximum humidity:** 90% RM

#### COSTUMER SUPPORT



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