



BATTERIES CHARGER BOARD

K400 cod. ACG4667

Isolate the K 24V control unit from the power supply before making connections. Remove the transparent protective cover by unscrewing the 3 screws that hold it in place (photos 1-2).

Remove the Jumper from the connector J2 K from the Board K 24V (Fig. 3).

Insert the battery charger board in connectors J2-J3 (Fig. 4-5).

Reposition the transparent cover and secure it with the screws (Fig. 6-7).

Connect the wires to the terminals of the K 24V circuit board, observing the colours: red for the positive pole (+) and black for the negative pole (-) as shown in Fig. 8-9.

INSTALLING THE BATTERIES

We recommend you use 2 12V 1.3 Ah batteries (code ACG9511).

Run the jumper between the negative terminal of battery 1 and the positive terminal of battery 2 for serial connection of the batteries (Fig. 10).

Place the batteries in the appropriate space dedicated to them (Fig. 11).

Connect the positive terminal with the red wire (Fig. 12) and the negative terminal with the black wire (Fig. 13).

Secure the batteries with the supplied strap and cut the excess to allow closing the protective cover as shown in Fig. 14-15-16.

VERIFYING OPERATION OF THE CIRCUIT BOARD

Connecting the terminals to the battery cables (respecting the polarities - Fig. 12-13) on the control unit you have to turn on led DL 9 and, if enabled, also the other leds.

Connect the mains.

As the batteries need about 24 hours to reach full charge, the automatic system **SHOULD NOT** be used with the batteries alone until charging has been completed.

BATTERY OPERATION INDICATOR (BLACK-OUT)

On electronic panels K 24V you can connect a 24Vdc indicator light (A+/SIGNAL TERMINALS) that signals the operation with batteries only (network black-out condition).

This indicator light flashes when the gate is at a standstill 2 times with pause for 2 seconds during operation with batteries and flashes continuously when the batteries are low with 1 signal tone from the buzzer every 5 seconds for 1 minute. The warning is repeated at each command.

When the batteries are low, any attempt to operate the system will be interrupted (to safeguard the battery).

When power is restored, it will be sufficient to select any control function to bring the gate into operation. The batteries will also begin recharging.

ENERGY SAVING WITH BATTERY OPERATION AND/OR SOLAR PANELS

In case of emergency batteries or a system with solar panels plus batteries, with the gate at a standstill you can switch off the accessories to avoid fast consumption of the batteries.

To use this function, simply connect the accessories (photocells or other equipment) between terminals A+TEST and A- on the K 24V.

In case of black-out, the A+TEST output switches off automatically after 10 seconds. At the same time, the accessories connected to it turn off.

At a command prompt, the output A+TEST is re-enabled and after 1 second the gate opens with the safety devices enabled.

REMOVAL OF THE BATTERIES

N.B.: Disconnect the power supply from the operator before removing the batteries.

The batteries must be removed from the operator before discarding it. The disposal of the batteries must be done in an appropriate and safe way. Remove the supply conductors (see Figure 8-9-10-12-13).

Remove the batteries charger card (see Figure 4-5) and relocate the connector with card as shown in Figure 3.

