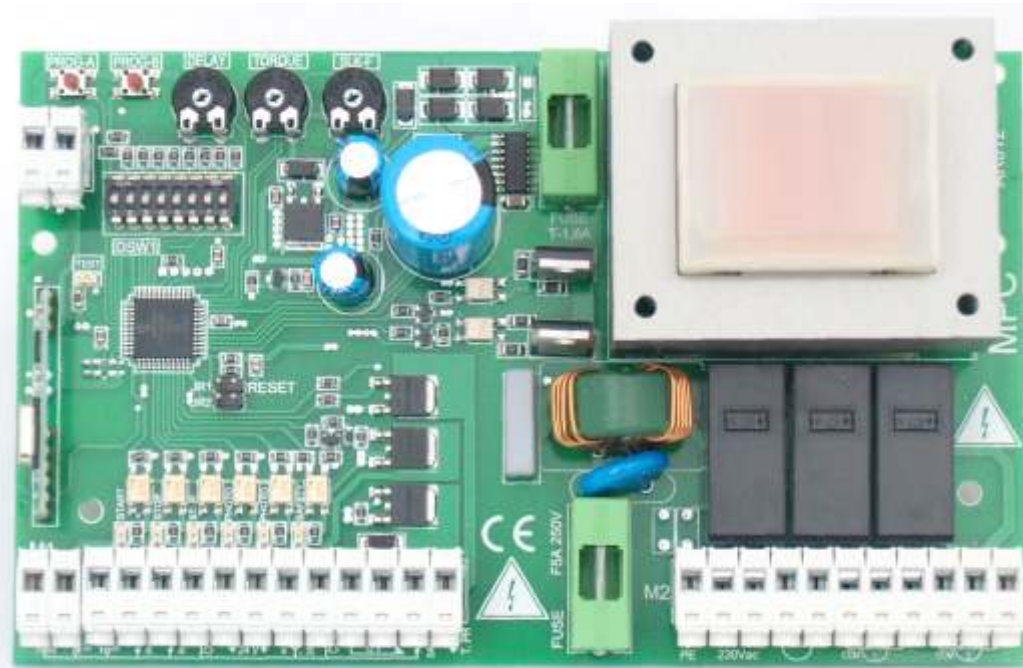


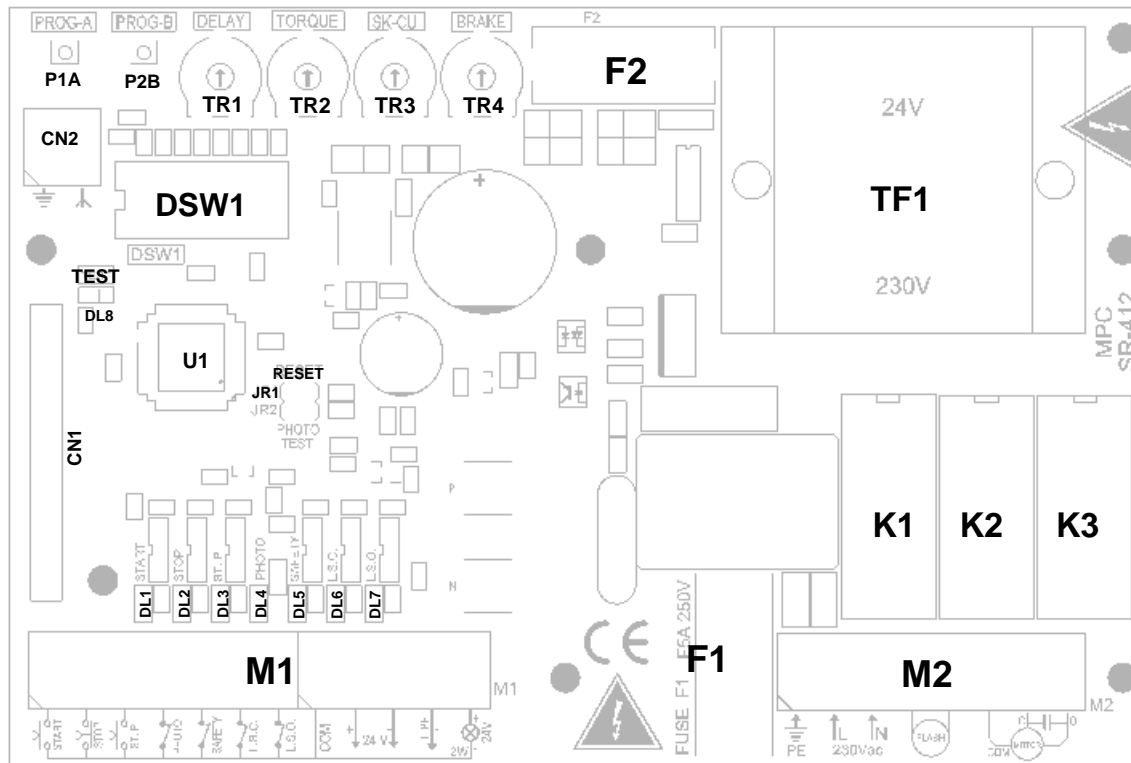
INSTALLATION AND PROGRAMMING MANUAL FOR SR412 CONTROL BOARD FOR 230 Vac SLIDING GATES



SR412 Control Board for sliding gates

DESCRIPTION

- TR1 - TR4** = Adjustable trimmers
- DSW1** = Micro Switches
- DL1 – DL8** = LEDs
- F1** = 230Vac Fuse
- F2** = Low Voltage Fuse
- M1** = Low Voltage Terminal
- M2** = 230Vac Terminal
- CN2** = Receiver
- K1 – K3** = Relay
- TF1** = Transformer
- U1** = Micro Control Unit
- JR1** = Reset jumper



INTRODUCTION

SR412 control board is suitable for 230 Vac actuators for sliding gates. The max absorption of the device is 650 W per 230Vac 50Hz. The setup of the parameters must be carried out after the installation of all the equipment.

ATTENTION

The Product must be installed by qualified personnel who can carry out the installation operation strictly in compliance with safety rules. The device must not be used incorrectly or for any purposes other than the ones designed for. Before proceeding with the installation it is necessary to read the instruction manual carefully in order to avoid danger to either the users or the equipment. It is necessary to power the device using a 6A bipolar thermomagnetic switch equipped with a differential with an operating current of 0.03 A. Before carrying out any installation or maintenance operations turn off the power supply to the device with the bipolar switch. The equipment must not be tampered with or modified in any way. It is necessary to turn off the power supply to the equipment before installing it or opening the enclosure.

The manufacturer reserves the right to make changes to the product without prior notice. Therefore this manual may not correspond exactly to the product specifications.

DECLARATION OF CONFORMITY

AUTOTECH - G .KAPSALIS
 8, Archimidous str. 12134 Peristeri Athens,
 Greece, Tel: +302105780019, Fax: +302105785112
In accordance with the following directives:

- Radio & Telecommunications Terminal Equipment directive 1999/5/EC
- EN60950
- EN301489-1
- EN301489-3
- EN300220-3



hereby declare that:
 Product : S5070 Electronic Control Board for Opening Doors
 Model : SR412
is in conformity with the applicable requirements of the following documents.

I hereby declare that the equipment named above has been designed to comply with the relevant sections of the above referenced specifications. The unit complies with all the applicable essential requirements of the directives mentioned.

Name: Apergis Antonios
 Position: Technical Director
 Peristeri, 28 November 2013

INSTALLATION

Prior to the electric connection shut down the 230V 50Hz power supply and adjust motor torch to minimum

Use 0,5mm² to connect the buttons, photocells and 24V power supply. For connections with electric bolt and lights use at least 1,5mm² cables. For 230V 50Hz connections and motor connections use at least 2.5mm² cables.

Terminal 1

START	= Input Button N.O. (OPEN / CLOSE)
STOP	= Input Button N.C. (STOP)
ST.P	= Input Button N.O. (Pedestrian Open)
PHOTO	= External Photocell Command Input N.C.
SAFETY	= Safety Contact Input N.C.
L.S.C	= Close Limit Switch Contact N.C.
L.S.	= Open Limit Switch Contact N.C.
COM	= Input and Flashing Light Common
+24V	= +24Vdc Power Supply
-24V	= -24Vdc Power Supply.
W. L GHT	= Flashing Light 24Vdc 3W max. Output

Terminal 2

L	= Line Input 230V 50Hz
N	= Neutral Input 230V 50Hz (Electric Light Common)
FLASH	= Electric Light 230V 50Hz 15 W max.
COM	= Motor Common
C	= Motor Close
O	= Motor Open

- It is very important to firmly tight the signal cables of terminal 2 and power cables on terminal M1 separately to avoid errors. Use Jumpers to all N.C. inputs when not in use

-It is important to connect a capacitor to C an O contact on terminal M2.

- If one of the . . . (START and S.TP) is closed, or one of the N.C.inputs is open the TEST_LED blinks fast. In this case track programming is not available.

OPERATION MODES

CONDOMINIUM AUTOMATIC:

If the door is closed or closing and you press START button the door opens. If the door is opening, START command is ignored, while during auto close, START command resets time. If you press START after STOP command the door closes.

SUPERAUTOMATIC:If the door is closed or closing and you press START button the door opens. if the door is opening START command stops the door and then it closes. During auto close, START command closes the door. If you press START after STOP command the door closes.

AUTOMATIC:

If the door is closed or closing and you press START button the door opens. START command is ignored while the door is open. During auto close, START command closes the door. If you press START after STOP, command the door closes.

SEMIAUTOMATIC:

START command controls opening, closing and stoping the door. When the door is open you must press START to close the door .Auto close is disabled. If the door is opening and you press START the door stops and you must give a second START command to close the door. If START is pressed during closing function, the door starts to open. If you press START after a STOP command the door closes.

STEP BY STEP:

When the door is closed and you press START, the door opens. During opening if START is pressed, the door stops. if you then press START the door closes and by pressing START again the door stops. if you press START after a STOP command, the door closes.

MAINTENANCE

There are two 5 20 fuses for the 230Vac line and the low voltage that is supplied from the transformers secondary coil. The fuses have the following values

F1 Line Fuse 230Vac = 6,3 Slow burning

F2 Low Voltage Fuse = 1,25 A Slow burning

Prior to replacing the fuses the 230Vac power supply must be turned off from the main electrical supply. The value of the fuses must not be altered.

There is no other element on the control board that can be repaired or replaced from installation personnel. For any other issue contact technical support.

SLIDING GATE ISNTALLATION

TRIMMER

- TR1 DELAY at will.
- TR2 TORQUE to minimum.
- TR3 SK-CU at will.
- TR4 BRAKE at will.

DIP SWITCH

- DIP1 to DIP6 at will
- DIP7 = OFF and DIP8 = OFF (disabled)

OPERATION TIME PROGRAMMING

- Press PROG-A (P1A) for at least 3" seconds until TEST LED starts blinking and then follow the procedure bellow. Programming ends when TEST LED turns off.

