

R2010-D 230 Vac

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650 W 230Vac 50Hz.

INSTALLATION AND PROGRAMMING MANUAL FOR CONTROL BOARD R2010-D 230 Vac

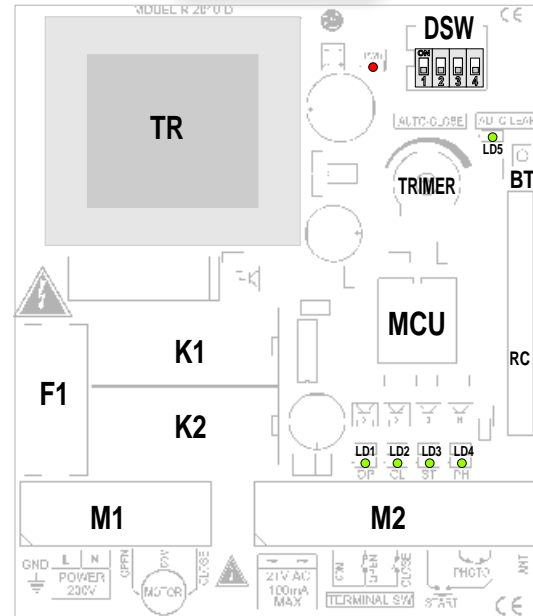
R2010-D control board is suitable for 230VAC one actuator with built in or external limit switch. The max absorption of the device is 650 W per 230Vac 50Hz. The setup of the parameters must be carried out after the installation of all the equipment.

TRIMMER = trimmer
 DSW = Dip Switch
 LD1 - LD4 = LED
 LD5 = LED
 F1 = 230Vac
 M1 = 230Vac
 M2 =
 RC =
 K1 - K2 =
 TR =
 MCU =
 BT =



1
 GND =
 L = 230V 50Hz
 N = 230V/50Hz
 OPEN =
 CLOSE =

2
 -24V = 24v
 COMMON =
 OPEN = 1. N.C. Dead Man
 2. N.O. Dead Man
 CLOSE = 1. N.C. Dead Man
 2. N.O. Dead Man
 START =
 PHOTO =
 COMMON =
 ANT =



DESCRIPTION

TRIMMER = Auto close setting trimmer
 DSW = Dip Switch
 LD1 - LD4 = Input LEDs
 LD5 = Programming LED
 F1 = 230Vac Fuse
 M1 = 230Vac Input / output terminal
 M2 = Low voltage Input / output terminal
 RC = Receiver
 K1 - K2 = Relay
 TR = Transformer
 MCU = Micro control unit
 BT = Remote control programming button

TERMINAL 1

GND = Ground input
 L = 230V 50Hz Line input
 N = 230V/50Hz Neutral input
 OPEN = Motor open
 COM = Common
 CLOSE = Motor close

TERMINAL 2

-24V = 24V output for photocell power supply
 COMMON = Input common
 OPEN = 1. Limit Switch Input N.C. OPEN (for external limit switch)
 2. Button Input N.O. Open Command Dead Man (for built in limit switch)
 CLOSE = 1. Limit Switch Input N.C. CLOSE (for external limit switch)
 2. Button Input N.O. Close Command Dead Man (for built in limit switch)
 START = Button input (OPEN / CLOSE)
 PHOTO = Photocell command input N.C.
 COMMON = Input common
 ANT = Antenna input

Declaration of Conformity (No. CE-0104)	
We:	AutoTech Georgia Kapsali, Gionias 11, Persisteri, 12133, Athens, Greece.
declare under our sole responsibility that the product:	Name: Control board for rolling shutters and sliding gates motor
Model:	R2010D
to which this declaration relates it is in conformity with the essential requirements of:	2014/53/EU - Radio Equipment Directive (RED) 2011/65/EU - RoHS Directive 2012/19/EU - WEEE Directive
For the evaluation of the compliance with these Directives and Regulations, the following standards were applied:	
SAFETY (article 3.1. of RED)	EN 60950-1:2006+A11:2009+A12:2010+A13:2011+A2:2013 EN 60335-1:2012+A11:2014+A13:2017
HEALTH (article 3.1. of RED)	EN 62479:2010
EMC (article 3.1. b of RED)	EN 50149:2006 EN 50149:2006 V3.1.1 (2017-03)
SPECIFICATIONS (article 3.2. of RED)	EN 50149:2006 V3.1.1 (2017-03)
RoHS	EN 50419:2006
WEEE	EN 50419:2006
NOTE: It is important that the product is subjected to a correct installation, use and maintenance, conforming to intended purpose, applicable regulations and standards, to supplier's instructions and user's manual.	
Signed for and on behalf of: AutoTech Georgia Kapsali	
Place and date of issue: Athens 01/06/2017	
Name, function: Antonios Apergis	Signature: _____

230V 50Hz.
 0,5mm²
 230V 50Hz
 1,5mm²
 M1
 6 /30mA

ATTENTION-INSTALLATION

Prior to the electric connection shut down the 230V 50Hz power supply. Use 0,5mm² to connect the buttons, photocells and 24V power supply. For 230V 50Hz connections and motor connections use at least 1,5mm² cables. It is very important to firmly tight the signal cables of terminal 2 and power cables on terminal M1 separately to avoid errors. Do not connect any kind of device in the terminal inputs other than the one they are designed for. 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.

OPERATION SETTINGS

ACTUATOR OPERATION WITH BUILT IN LIMIT SWITCH (ROLLING SHUTTER)

Dip Switch 1 **OFF** OPEN and CLOSE as Dead Man input button. The buttons must be N.O.
 In this way the door closes for as long as we press the CLOSE button and the door opens for as long as we press the OPEN button.

ACTUATOR OPERATION WITH EXTERNAL LIMIT SWITCH

Dip Switch 1 **ON** If we connect an actuator with external limit switches we connect them to inputs OPEN and CLOSE. The limit switches must be N.C.

Dip Switch 2 **OFF** STEP by STEP Operation
 OPEN → STOP → CLOSE → STOP → OPEN ...

Dip Switch 2 **0** ONLY OPEN Operation
 For this mode we always enable auto close and install photocells

Safety Operation Time

Dip Switch 3 **OFF** For actuator with built in limit switch 60 seconds
 For actuator with external limit switch 90 seconds

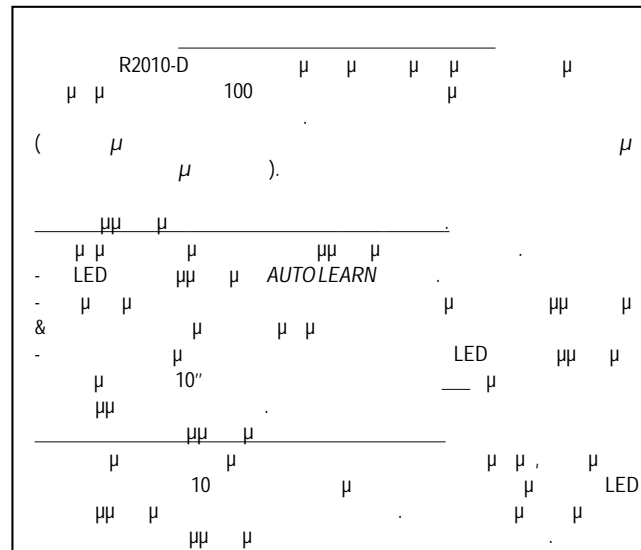
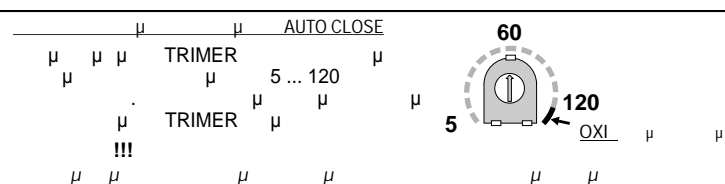
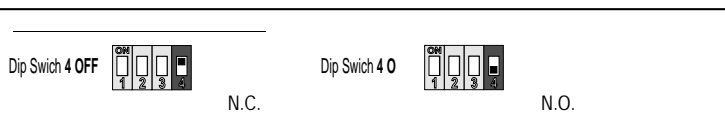
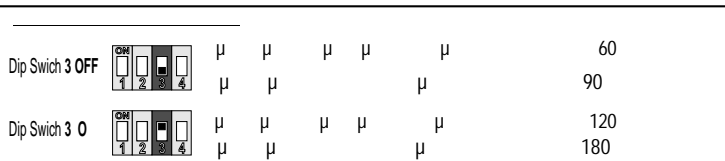
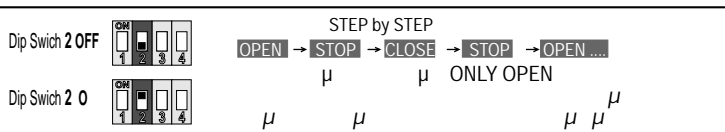
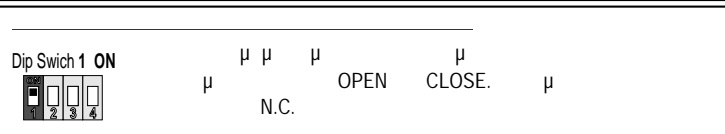
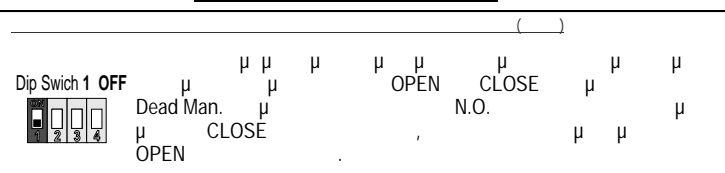
Dip Switch 3 **0** For actuator with built in limit switch 120 seconds
 For actuator with external limit switch 180 seconds

Photocell Contact Operation

Dip Switch 4 **OFF** Photocell Contact N.C. Dip Switch 4 **0** Photocell Contact N.O.

AUTO CLOSE OPERATION

Set the auto close time with the closing TRIMER from 5 ... 120 seconds. If we want to disable auto close simply turn the TRIMER to the right. **ATTENTION !!!** When we enable AUTO CLOSE it is mandatory to use Photocells



REMOTE CONTROL PROGRAMMING

R2010-D Control board has a built in receiver that can store up to 100 rolling coded remote controls or a fixed coded remote control. (If we want to use more fixed coded remote control we duplicate the remote controls).

Remote control programming on the control board. Press button on the control board once.

- AUTOLEARN LED turns on
- We press the button of the remote control we want to program & it is stored to the control boards memory.
- If we do not press any remote control the programming LED turns off after 10" seconds and the board can no longer store remote controls.

Delete stored remote controls

If we want to erase all the remote controls from the control board memory we press the button of the board constantly for 10 seconds until the LED starts to blink. We then release the button and all remote controls have been deleted.

