MecVel
ognibene elettromeccanica

COMPLETE DRIVER
FOR 2 LINEAR ACTUATORS
with 12Vdc MOTOR

PF0016

MODEL: QUICKLIFT

GENERAL SPECIFICATIONS

QUICKLIFT has a 12Vdc board, a 4 driving buttons receiver with led for running status signalling, and a remote radio-control with 4 driving push buttons (the buttons of the receiver and the remote control have the same use).

QUICKLIFT allows controlling in both directions **two linear actuators** with 12Vdc motor with a current maximum absorption of **28A**/actuator.
Four inputs control the motion and the direction of the actuators.
Two limit-switches (1 for each actuator) allow stopping the actuators only in one direction while in the opposite direction the actuators can be stopped setting up a Current Limitation.
The Current Limitation Circuit, adjustable from **4A to 28A** by means of one only trimmer placed on the board, allow stopping the movement of both actuators according to their current absorption.
It's possible to cut out the Limit switch function and use only the Current Limitation.

- **The exclusion of the Limit Switches is programmable by means of 2 jumpers to be done from the connectors bar**
- **Currents adjustment is programmable by means of 1 only trimmer (P1) placed on the board**

TECHNICAL DATA AND AVAILABLE FUNCTIONS

- Power supply voltage for electronic board **12 Vdc +/-10%**

- Input for "Actuator 1" OPENING Control
- Input for "Actuator 1" CLOSING Control
- Input for "Actuator 2" OPENING Control
- Input for "Actuator 2" CLOSING Control

- 2 Outputs for "Actuator 1" driving, **ON-OFF** type (inversion of polarity)
- 2 Outputs for "Actuator 2" driving, **ON-OFF** type (inversion of polarity)

- Input for "Actuator 1" Limit switch (for OPENING or CLOSING)
- Input for "Actuator 2" Limit switch (for OPENING or CLOSING)

- Trimmer for current limitation adjustment on "Actuator 1 and 2" **(Trimming range 4…28A)**

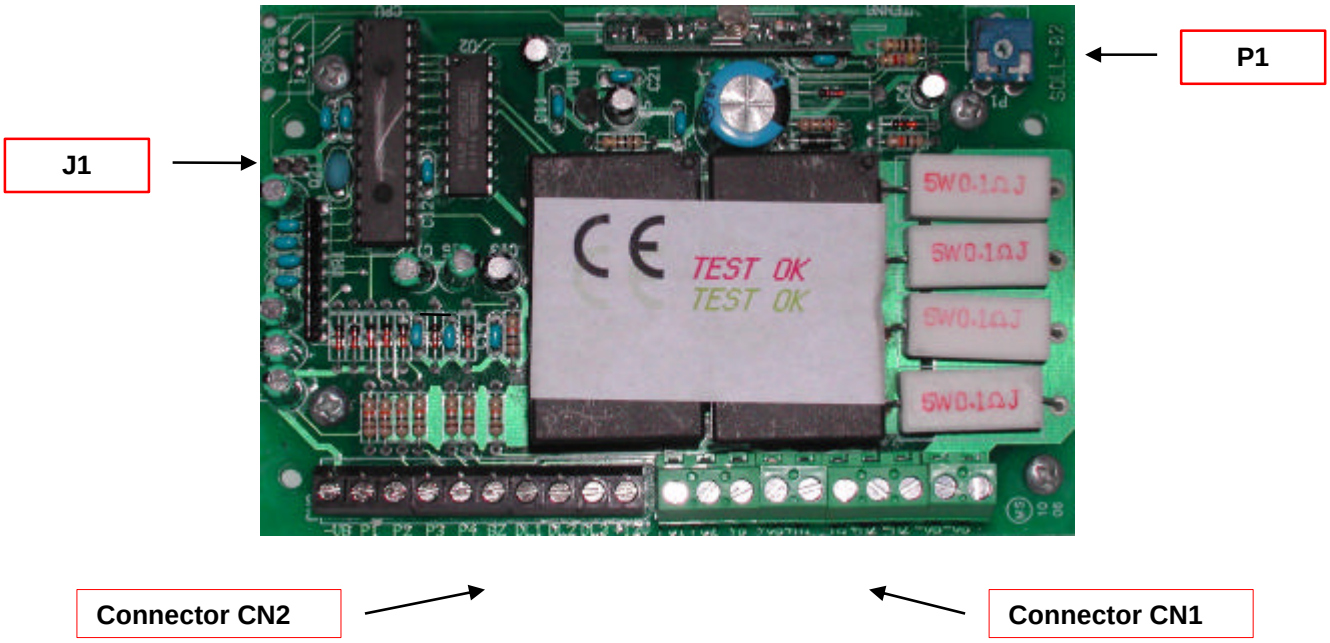
- 1 Output for Overload signalling
- 1 Output for "Actuator 1" limit switch
- 1 Output for "Actuator 2" limit switch

- Dimensions of electronic board box: 180 x 240 x 80 mm
- Dimensions of electronic board: 80 x 120 x 35 mm

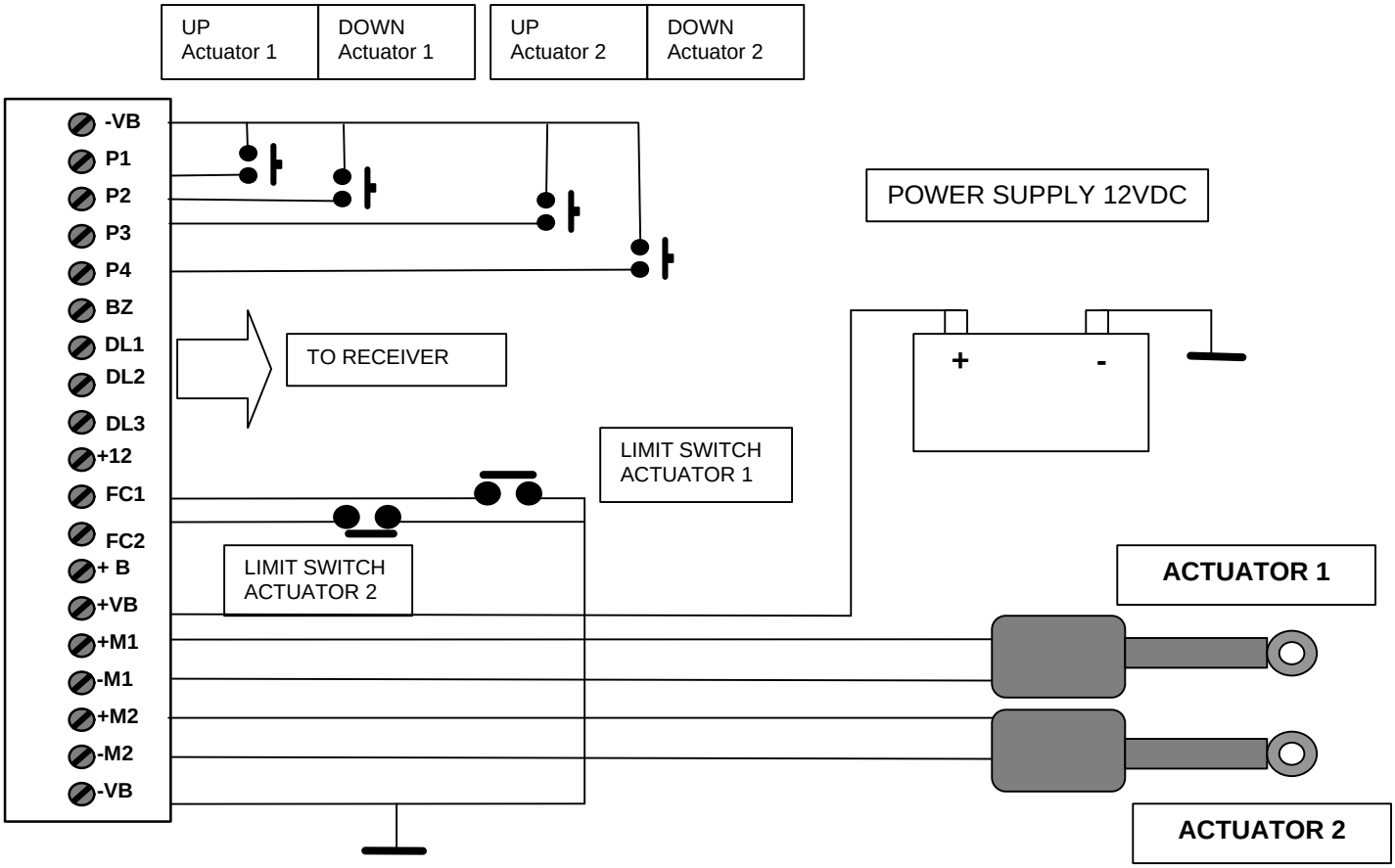
ACTUATORS CURRENT LIMITATION ADJUSTMENT

The adjustment of the Current Limitation value is done by means of trimmer P1 from 4A to 28A.

LAY-OUT OF BOARD PROGRAMMING ELEMENTS



BOARD WIRING DIAGRAM



Connector (CN1): WIRING OF LIMIT SWITCHES INPUTS AND POWER OUTPUTS

FC1	Actuator 1 limit switch input (UP or DOWN) (power on NC contact with –VB / if NOT used put a jumper between FC1 and –VB)
FC2	Actuator 2 limit switch input (UP or DOWN) (power on NC contact with –VB / if NOT used put a jumper between FC2 and –VB)
+B	Not used
+VB	Positive power supply (12VDC)
+M1	Positive for actuator 1
- M1	Negative for actuator 1
+M2	Positive for actuator 2
- M2	Negative for actuator 2
- VB	Negative power supply

Connector (CN2): WIRING OF CONTROL INPUTS AND SIGNALLING OUTPUTS

- VB	Common for control inputs (Negative power supply)
P1	Control input for Attuatore1 UP
P2	Control input for Attuatore1 DOWN
P3	Control input for Attuatore2 UP
P4	Control input for Attuatore2 DOWN
BZ	Emits a signal modulated at 1.000 Hz for the Buzzer, that indicates if the actuators are running and confirms when the radio control programming took place
* **DL1**	Receiver Red LED lighting up control for overload signalling
* **DL2**	Receiver Green LED lighting up control for actuator 1 limit switch
* **DL3**	Receiver Green LED lighting up control for actuator 2 limit switch
+12V	Auxiliary feeding point 12Vdc

* Maximum available current: 50mA - 12V (enough for leds but not for lamps)

RADIO REMOTE CONTROL PROGRAMMING

- Put a Jumper between pins PIN and J1
- Push one of the buttons of the radio remote control for a few seconds
- After the beep of the buzzer release the button and take off the jumper between the pins PIN and J1