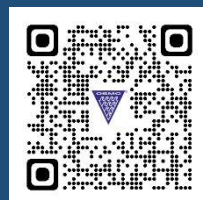


# BOX 12V

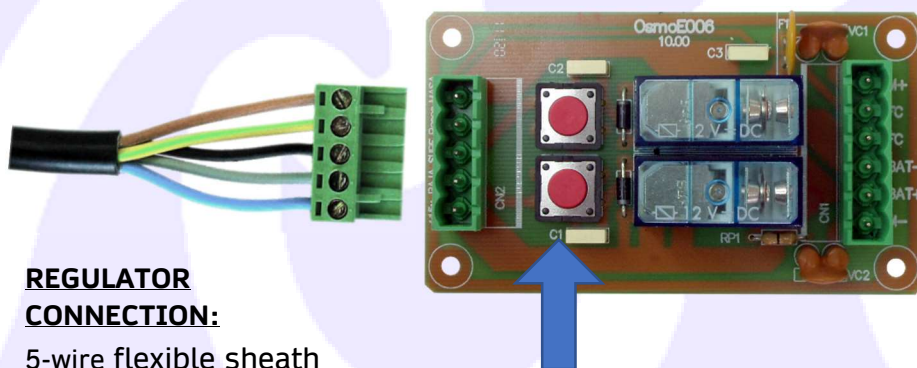
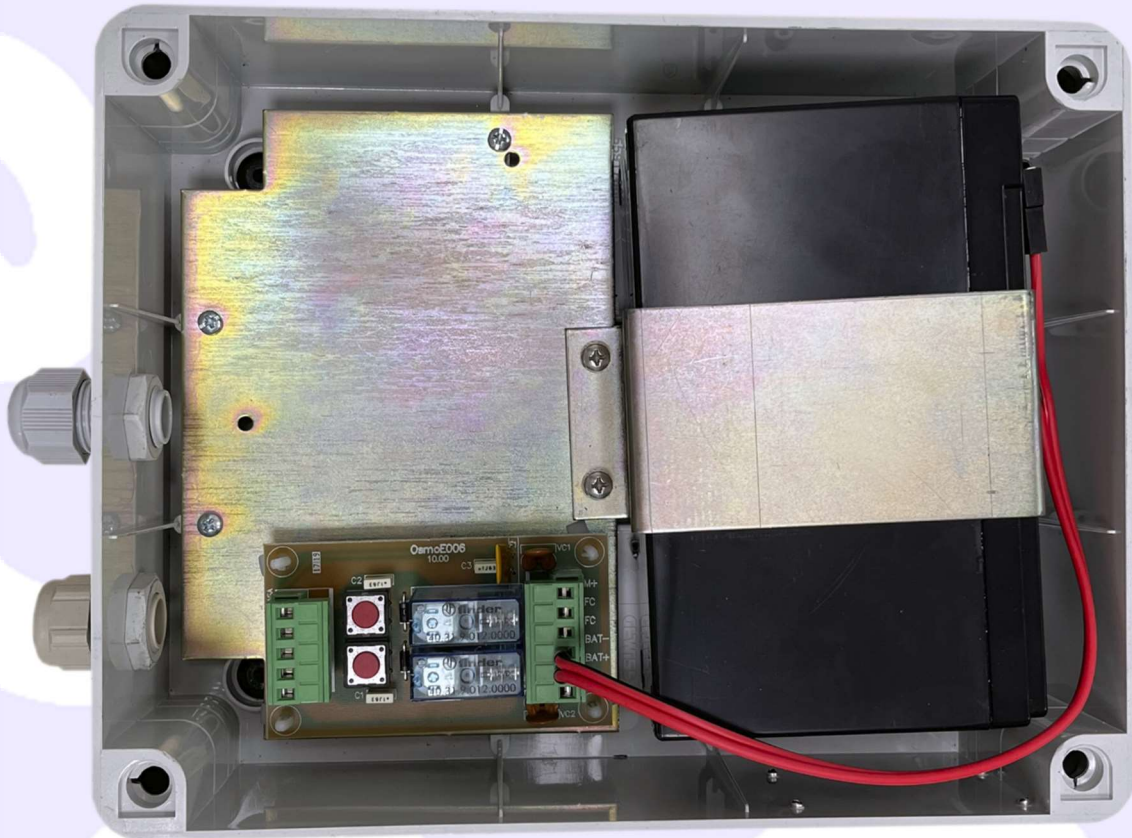
with batteries and manual circuit



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## CONNECTIONS



### **REGULATOR CONNECTION:**

5-wire flexible sheath  
(5x1)  
NEVER LOOSE THREAD

### **Emergency pushbuttons**

the regulator will not record the movement that is made by these buttons.

Motor +  
Step  
Step  
Battery -  
Battery +  
Motor -

If the direction of rotation does not coincide with the commands of the computer, the order of the motor cables will have to be changed.

The connection of the step cables, they have no polarity

Be careful with the connection of the battery because if we reverse the voltage we will cause, with all certainty, the breakage of the track of the manual circuit

*Warning: the battery box and the motor must be installed at a maximum distance of 1.5 m, which is allowed by the supplied flexible multi-conductor connection sheath. IN NO CASE <sub>3</sub> EXTEND the supplied multi-conductor flexible sheath.*

## WIRING AND INSTALLATION STANDARDS

### **MOTOR:**

Connections between the regulator and the motor must be made with a 5-wire multi-conductor sheath (5x1). **NEVER with loose thread.**

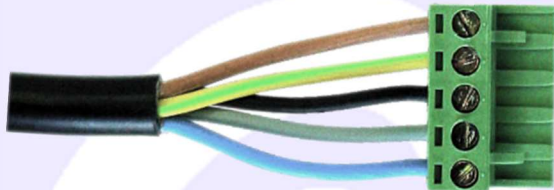
5-wire multi-conductor sheath (5x1) **should not pass** along with other hoses that carry tension.

Motor connections will only be made when all cables are permanently installed and with the regulator turned off

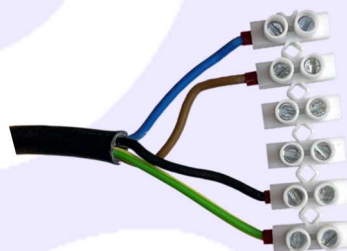
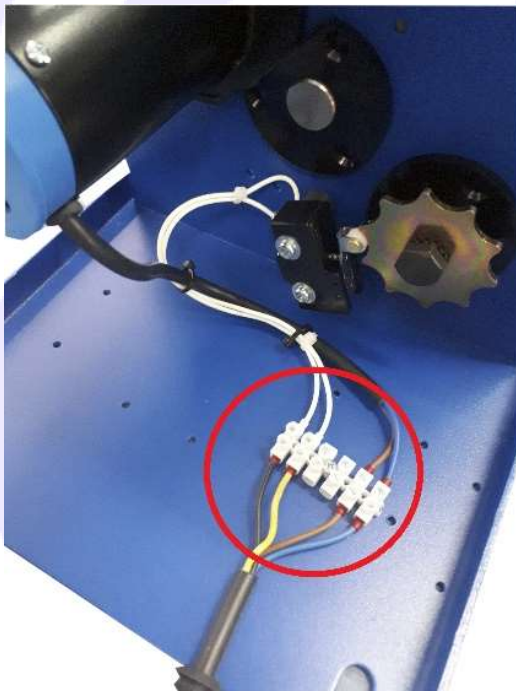
### **WARNINGS:**

Make sure that the position of the wires is correct (as shown in the following figure), otherwise, it may cause malfunction or even breakdown of the equipment.

5-wire flexible sheath  
(Connection to the regulator)



Brown: -12V  
Green/Yellow: Count  
Black: Up  
Grey: Down  
Blue: +12V



### **CONNECTION TO THE MOTOR**

Motor +  
Motor -

Steps  
Steps