

4A. DC REGULATOR BY PUSH BUTTON R-22



TECHNICAL CHARACTERISTICS

Voltage.....	8-30V.D.C.
Minimum /Maximum Consumption.....	20mA./350mA.
Maximum Load.....	4A.
Protection against polarity inversion,(P.I.P.).....	Yes.
Sizes.87 x 72 x 40mm.

Pressing one or two push buttons, this module allows an ascending or descending progressive adjustment on the load. It allows to select the operating mode between one or two push buttons as well as to adjust the activation deactivation ramp. It also can be installed into a DIN Rail Ref. C-7566.

INSTALLATION and OPERATING MODE.

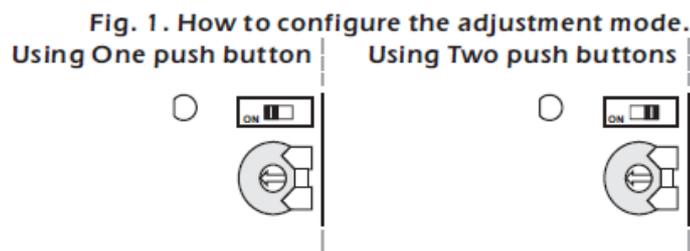
POWER SUPPLY. The R-22 circuit had to be supplied at the maximal operating voltage indicated by the device or by the load that you wish to adjust. This voltage can not be inferior than 8 V DC neither superior than 30 V DC. And it has to be correctly filtered. We recommend you to use a power supply and not transformers or rectifiers which can damage the circuit operating mode. For instance, if you want to adjust a 24V motor, you have to supply the module with 24VDC. Install a fuse and a switch has it is indicated on the general wiring map. Both are necessary for the module's protection as well as for your own safety, as it is required by the "CE" regulations.

Connect the positive and the negative of the power supply to the screws corresponding to the terminal indicated as "input", respecting their polarity. The distance between the power supply and the module has to be as short as possible. Verify that the assembly is correct.

OUTPUT CONNECTION AND RAMPS ADJUSTMENT. Install on the terminal indicated as "Output" the device that you wish to adjust. Do not forget that this device can not have a consumption superior than 4A. Respect the indicated polarity. The speed for the ascending or descending progression of the load, (ramp), can be adjusted through the potentiometer installed on the circuit and indicated as "RAMPS".

PUSH BUTTONS CONNECTION. Connect a push button to the OFF input and another to the ON input. If you have configured the module to operate with a single push button, you only have to install the push button on the ON input. The cable length has to be as short as possible. If the distance is superior than 50 cm, you have to use a shielded cable and to connect the braid to the screw corresponding to the ground symbol. The total length can not be exceeded 2 m. Use quality push buttons, because the module's operating mode will highly depend of them.

OPERATING MODES. The R-22 module allows two different adjustment modes: To use two push buttons, one to increase and one to decrease, or to use a single push button which is used for both functions: increase and to decrease. To select the wished operating mode, you have to place the "Config." micro-switch according to your needs. (Cf.fig1).



OPERATING MODE WITH TWO PUSH BUTTONS. If you have placed the micro-switch in OFF position, and if you maintain pressed the push button connected to the ON input, the output signal will progressively increase. At the opposite, if you maintain pressed the push button connected to the OFF input, the output signal will progressively decrease. More over of the adjustment according to the time during push buttons are pressed; the circuit allows an "immediate and complete" activation or deactivation. You can leave the output on the wished level, if you quickly pressure in OFF input, the output will immediately light off. At the opposite, a quick pressure in ON input will restore the output level previously adjusted. A quick double pressure in the ON input will erase this memory and activate the output at the maximum.

If after this immediate activation or deactivation, you maintain pressed one of both push buttons, the circuit will understand that you want to adjust the output from the value stored in memory. Then, the module will recuperate this value and it automatically and progressively adjust the output to the top or to the bottom, according to the pressed push button. The memory of the last adjustment will be stored only till you stop to supply the module. Independently of the adjustment, to activate or cut at the maximum the output voltage, you have to always apply a double pressure on the corresponding push button.

OPERATING MODE WITH A SINGLE PUSH BUTTON. If you have placed the micro-switch in ON position, the output signal will progressively increase till the maximum if you maintain pressed the push button. If you press it till you reach the maximum, then the decrease will be automatically and progressively activated. Once the output signal level adjusted to the wished level, if you again maintain pressed the push button, the circuit will continue the same progression than before its adjustment. To do an immediate and complete activation or deactivation, you have to quickly pressthe push button. Automatically, and according if the last adjustment was ascending or descending, the output will be respectively and completely activated or deactivated.

GENERAL WIRING MAP

