750 W. AC. REGULATOR TROUGH PUSH BUTTON R-18

CHARACTERISTICS

Voltage. ..... 230 V. A.C.
Minimum/Maximum Consumption. .... 20 mA/350 mA.
Minimum acceptable Load. ..... 50 W.
Maximum acceptable Load.. ..... 750 W.
Dimensions. ..... 98,75 x 72 x 40 mm.

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 of the ramp.
It also can be installed into a DIN Rail Ref. C-7567.

INSTALLATION

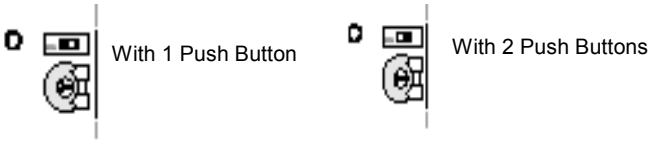
POWER SUPPLY. The module R-18 had to be supplied by 230 VAC. See General Wiring Map. We strongly recommend you to use an adequate plug and a cable for mains connect them to the terminal indicated as “INPUT”. Install a switch as it is indicated in the drawing, close to fuse inserted in the circuit. Both are necessary to protect the module and for your own security, as it is indicated in EEC regulations. Before to connect the module to the mains inserting voltage, please do the rest of connections specified hereafter. Do not forget that in several part of the module there is voltage (230 VAC), for this reason we suggest you to be careful. Then, verify that you have correctly connected the module.

OUTPUT CONNECTION AND RAMP ADJUSTMENT. Install on the terminal indicated as “Output” the device that you wish toadjust. Do not forget that this device can not be a PL Lamp, fluorescent lamp, etc... and its consumption has to be 50W minimum and 750 W as maximum. 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 an other 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 as to be as short as possible. If the distance is superior to 50cm, 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 exceed 2 m. Use quality push buttons, because the module's operating mode will highly depend of them.

OPERATING MODES. The R-18 module allows two different adjustment modes: To use with two push buttons, one to increase and one to decrease, or to use with a single push button which is used for booth functions: to increase and to decrease. To select the wished operating mode, you have to place the “Config.” micro-switch according to your needs. (Cf. fig 1

Fig. 1. To configure the Adjustment Mode.



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. In addition with 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 on OFF input, the output will immediately light off. At the opposite, a quick pressure on ON input will restore the output at the level previously adjusted. A quick double pressure on the ON input will erase this memory and activate the output at the maximum.

OPERATING

POWER SUPPLY. The module R-18 had to be supplied by 230 VAC. See General Wiring Map. We strongly recommend you to use an adequate plug and a cable for mains connect them to the terminal indicated as “INPUT”. Install a switch
If after an 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 to cut at the maximum the output voltage, you will always have to apply a double pressure on the corresponding push button.

OPERATING MODE WITH A SINGLE PUSH BUTTON. . If you have placed the micro-switch on 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, the circuit will maintain in memory if the previous adjustment was done in ascending or descending mode and it will pursue in the corresponding mode. If you maintain pressed again the push button, the circuit will continue in the same progression than before its adjustment.
To do an immediate and complete activation or deactivation, you have to quickly press the push button.
Automatically, and according if the last adjustment was ascending or descending, the output will be respectively and completely activated or deactivated.