PAYNE ENGINEERING

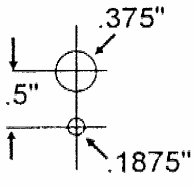
Model 18TB

INSTALLATION AND OPERATING NOTES

Unit Ordered	Model No.	RL (Ohms) Minimum Load Resistance
	18TB-1-15	8
	18TB-1-25	4.8
	18TB-2-15	16
	18TB-2-25	9.6

For resistive loads such as strip or coil type industrial heaters a minimum load resistance RL, is always implied by the voltage and the current rating of your power control. Dividing the maximum output voltage (i.e. the input voltage) by the current rating will give you this value. Ohm's Law, E=!*R

MOUNTING INSTRUCTIONS



POWER MODULE: Mount the unit to a metal panel in a vertical orientation to natural convection cooling air to flow up through the cooling fins. For mounting hole location, see dimension chart on back of this instruction sheet.

CONTROL POTENTIOMETER: The control potentiometer can be mounted up to 50 ft. from the power control. Any two conductor cable No 22 AWG or larger will suffice. See mounting hole dimensions on back of this instruction sheet.

CONNECTING THE LOAD

Run the black (hot) lead from your source to the 18TB and connect it to terminal 1 (line). Continue to run the hot lead from terminal 4 (load) to your load. Run the white (neutral) lead from your source to your load. The power circuit of the 18TB is connected in series with your load. See connection diagram on back of this instruction sheet.

FUSING

To provide for many years of reliable operation these units are fused at their maximum rating. These "2 millisecond" fuses provide short circuit protection as well as long term overload protection.

IMPORTANT! USE ONLY PAYNE ENGINEERING RECOMMENDED FUSES

TESTING

Thyristors require a small amount of current flowing through them in order to remain in the ON condition when applying power to the load. Therefore, with no load connected to the output terminals you cannot reliably check the operation of the unit. A 0.5 an1p load connected to the unit is generally sufficient to check the power control prior to placing it in service.

WARNING! HIGH VOLTAGE ALWAYS PRESENT ON ALL TERMINALS

Sales • Engineering
"Heat and Control Specialists"
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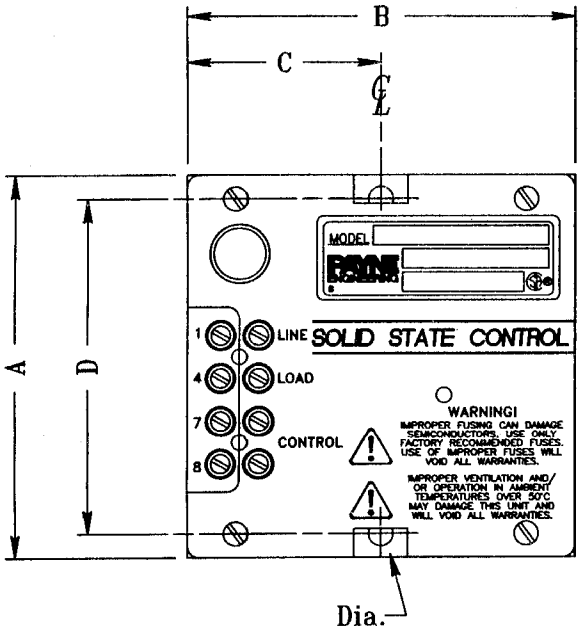


FIG. A

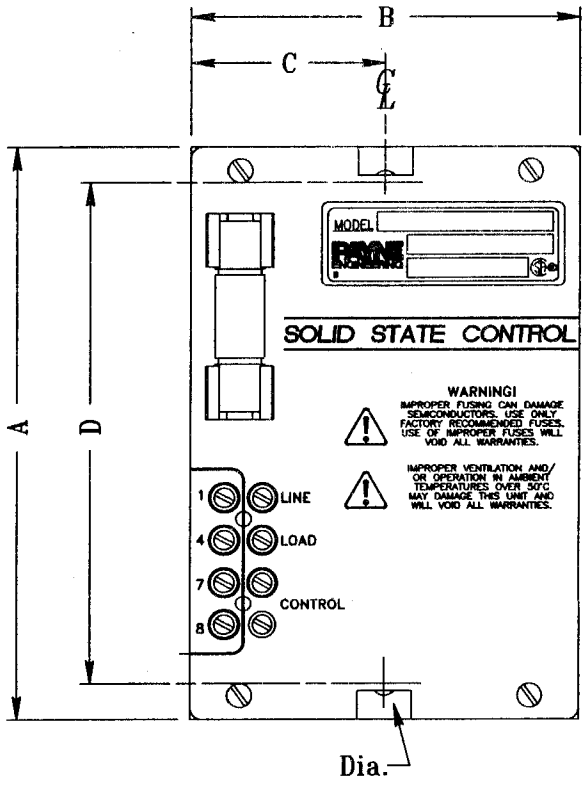
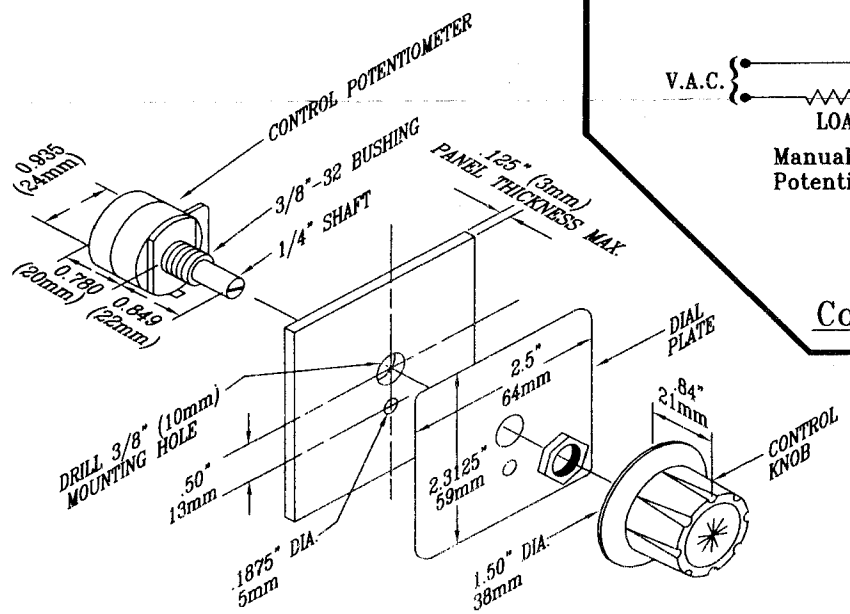


FIG. B

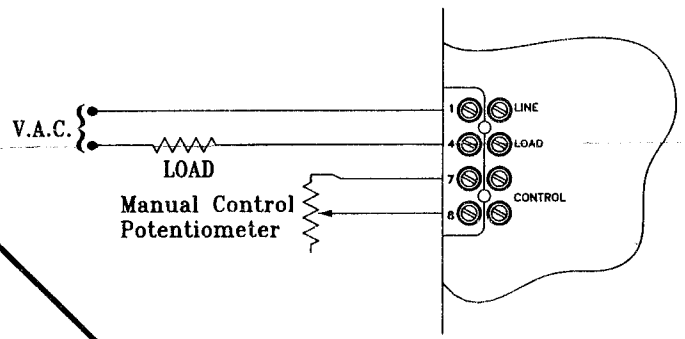
MODEL NO.	A	B	C	D	Depth	Dia.	Fig.
18TB-1-15 -2-15	4.000 102	4.000 102	2.000 51	3.500 89	2.625 67	0.250 6	A
18TB-1-25 -2-25	6.000 152	4.000 102	2.000 51	5.500 140	2.875 73	0.250 6	B

IN.
MM

Dimensions



Control Pot. Mounting



Connections

Dwg. No.	18T/6.002F

Model 18TB
Solid State
Power Control

installation diagram

PAYNE ENGINEERING

Drn By:	DWM	4/69
App By:	RLW	01/05/93

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Rev.		
F	ADD POT. MOUNTING DETAIL	12/96