

POWERLINK



ER1, ER1.5 & ER2.5 Burst Firing Power Controller instruction manual

1) Installation

The controller should be mounted to allow airflow through the heatsink naturally. The maximum ambient temperature should not exceed 50 Deg. C.

2) Protection Fuse

External protection fuses shall be fitted for protecting the semi-conductors of ER1 or ER2.5.

ER1	10A, 250V very Fast Fuses, e.g. RS: 420-218
ER1.5	12.5A, 250V very fast fuses, e.g. RS: 420-224
ER2.5	16A, 250V very Fast Fuses, e.g. RS: 420-230

A 100mA delay fuse which is on the print circuit board is used to protect the low voltage supply of the electronic control circuit.

3) Wiring

An ER1, ER1.5 or ER2.5 controller should be connected according to the wiring diagram as shown in fig. 1. The size of cables for controlling signals should be larger than 0.5 mm sq. and the cable to L, N and cables to the load must be sufficient to withstand the maximum current rating of the LOAD and meet the IEE WIRING REGULATIONS.

4) Set-up procedure

After connecting the load to a power controller, set the input signal to minimum (0V). Switch on the mains supply, the output voltage or current to the load should be zero (except the leakage current or snubber circuit current which is less than 10mA). Gradually increase the input signal and check that the output is switching ON and OFF according to the input signal.

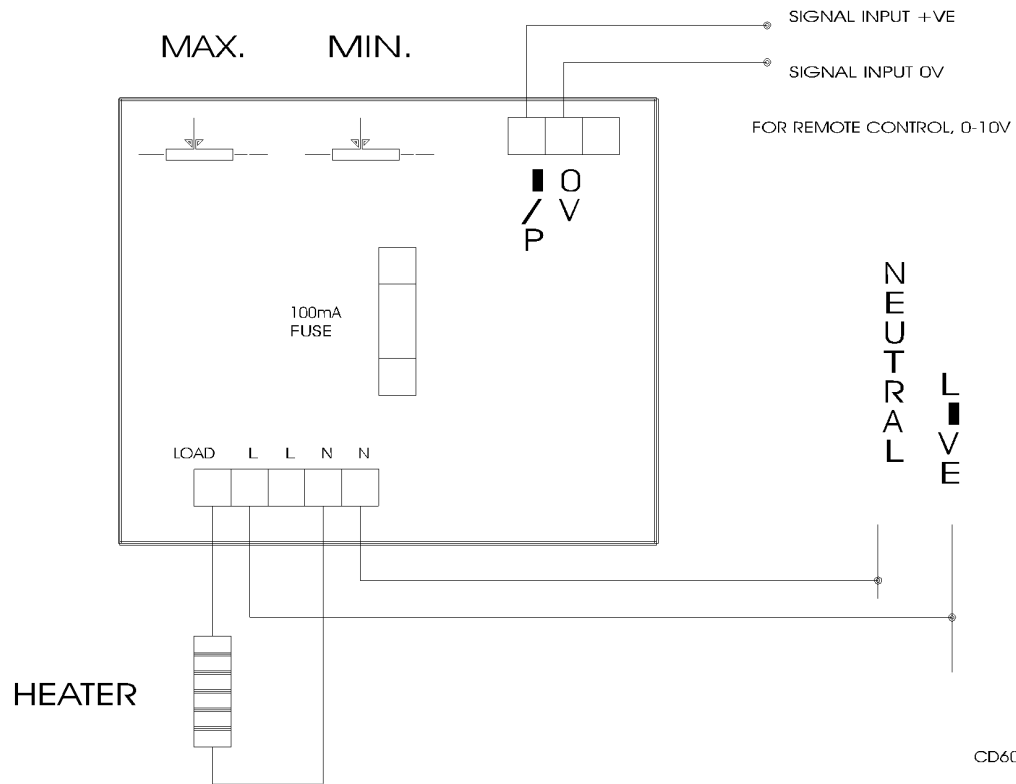
5) ALL STANDARD UNITS ARE FACTORY SET UP AS FOLLOWS

- With the input at minimum (0V), switch on the mains supply to an ER unit.
- With an input of 9V for 0-10V input range (for other input range, set the input to 90% of the max. input), adjust the SPAN pot clockwise until the output voltage or current is at maximum.
- With the input at 1V for 0-10V input range (for other input range, set the input to 10% of the max. input), adjust ZERO POT until the output is zero.
- Repeat step b) and c) until the output is at maximum and zero.

Specification

Supply voltage	192V to 264Vac
Supply frequency	47Hz to 63Hz
Operating temp.	0 to 45 Deg. C
Storage temp.	-10 to 80 Deg. C
Input signal	0-10V as standard, 22 kilo-ohm min. input impedance 4-20mA on requested
Current ratings,	Natural cooling ER1 - 5A max. ; ER1.5 – 8A max. ; ER2.5 - 13A max. per phase
Cycle Time	typical 3 sec.
Isolation	2500Vrms between input and output
Min. holding current	30mA
Repetitive peak voltage	600V
Dimensions	ER1 & ER1.5 W: 68mm x H: 95mm x D: 48mm ER2.5 W: 78mm x H: 95mm x D: 66mm
Mounting	DIN rail mounted, positive screw locking

ER1, ER1.5 & ER2.5 WIRING DIA.



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