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# INSTALLATION INSTRUCTIONS 133-766 TERMINAL BLOCK WIRING BASE FOR BURNERPRO FLAME SAFEGUARD and BOILER CONTROL

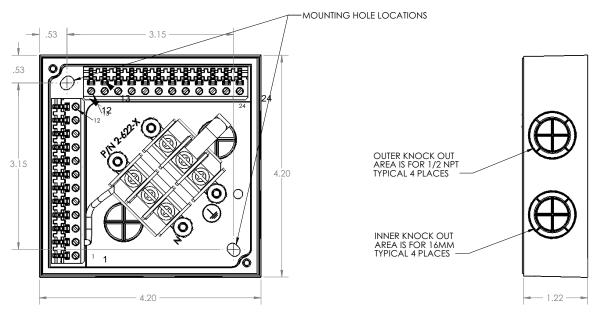
Wiring base part number 60-2944-1 offers a closed wiring compartment suitable for mounting inside or outside of a cabinet. Knockouts are located along the bottom and side of the wiring base. The terminal block contact positions are appropriately numbered to correspond to the pinout of the BurnerPRO control. Torque rating on terminal block screw is 4.4 in/lbs to 5.3 in/lbs. As shipped, all knockouts on the wiring base are in place and can be easily removed with knockout tool (i.e., screw driver).

Mounting of the base can be accomplished with 2 screws. The recommended screw sizes are #10 PAN HD x 5/8inch (5mm PAN HD x 16mm) and #10 PAN HD x 3/8 inch (5mm PAN HD x 10mm). Refer to Figure 1 below for mounting dimensions.

#### **Grounding Wire**

Each BurnerPRO control is fitted with a grounding wire. Attach the open end of the grounding wire to a ground terminal on the wiring base (see figure 1). Undo the screw terminal with a screwdriver and place the ground lug over the terminal. Re-install the screw over the ground lug. <u>Do not attach the grounding wire to a Neutral (N) terminal</u>.

#### FIGURE 1.



CAUTION: Ensure that electric power is turned off. Refer to SN-100 for recommended grounding techniques.

Be aware that power to some interlocks (operating controls, air flow switches, modulating circuits, etc.) may be derived from sources other than what is controlling the BurnerPRO.

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WARNING: Controls require safety limits utilizing isolated mechanical contacts. Electronic limit switches may cause erratic operation and should be avoided. Proper grounding is necessary. Ensure that wiring base ground terminal is connected to protective earth.

## Table 1: TERMINAL WIRING

Terminal No.	Туре	Description	Rating	
1	Power	Line voltage supply	110VAC (+10%, -15%), 50/60Hz 230VAC (+10%, -15%), 50/60Hz single phase	
2	Power	Line voltage common		
3	Output	Alarm	See Load Ratings	
4	Output	Lockout Limits	110/230 VAC, 1mA	
5	Input	Recycle Limits	110/230 VAC, 1mA	
6	Output	Combustion Air Blower	See Load Ratings	
7	Output	Combustion Air Blower		
8	Input	Actuator Feedback	110/230 VAC, 1mA	
9	Output	High Fire Purge	See Load Ratings	
10	Output	Low Fire Purge	See Load Ratings	
11	Output	Economy	See Load Ratings	
12	Input	Proof of Closure (FVES)	110/230 VAC, 1mA	
13	Input	Combustion Air Switch Test	110/230 VAC, 1mA	
14	Input	Combustion Air Prove	110/230 VAC, 1mA	
15	N/A	Unused		
16	Output	Ignition	See Load Ratings	
17	Output	Pilot	See Load Ratings	
18	Output	Main Fuel Valve (Direct)	See Load Ratings	
19	Output	Main Fuel Valve (Piloted)	See Load Ratings	
20	Output	Release to Modulate (AUTO)	See Load Ratings	
21	Input	Remote Reset	110/230 VAC, 3mA	
22	Output	Flame Sensor (UVS1)	300 VDC, 3mA	
23	Input	Flame Sensor Return (S2)	Sensor Common/return	
24	N/A	Unused		
N	Power	Line Voltage Common		
$\left( \begin{array}{c} \square \\ \blacksquare \end{array} \right)$		Protective Earth		

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### LOAD RATINGS:

Terminal	Typical Load	Maximum Rating @120V-50/60 Hz	Maximum Rating @230V-50/60 Hz	Alternate Rating		
6-7	Burner/Blower Motor	4 F.L.A. * 24 L.R.A.	4 F.L.A. * 24 L.R.A.	480 VA Pilot Duty (Motor Starter Coil)		
9-10-11-20	Modulator	240 VA Pilot Duty				
16-17-18-19	Fuel/Igniton	240 VA Pilot Duty				
3	Alarm	125 VA Pilot Duty				
* F.L.A. = full load amps; L.R.A = locked rotor amps						

Maximum connected load must not exceed 2000VA.