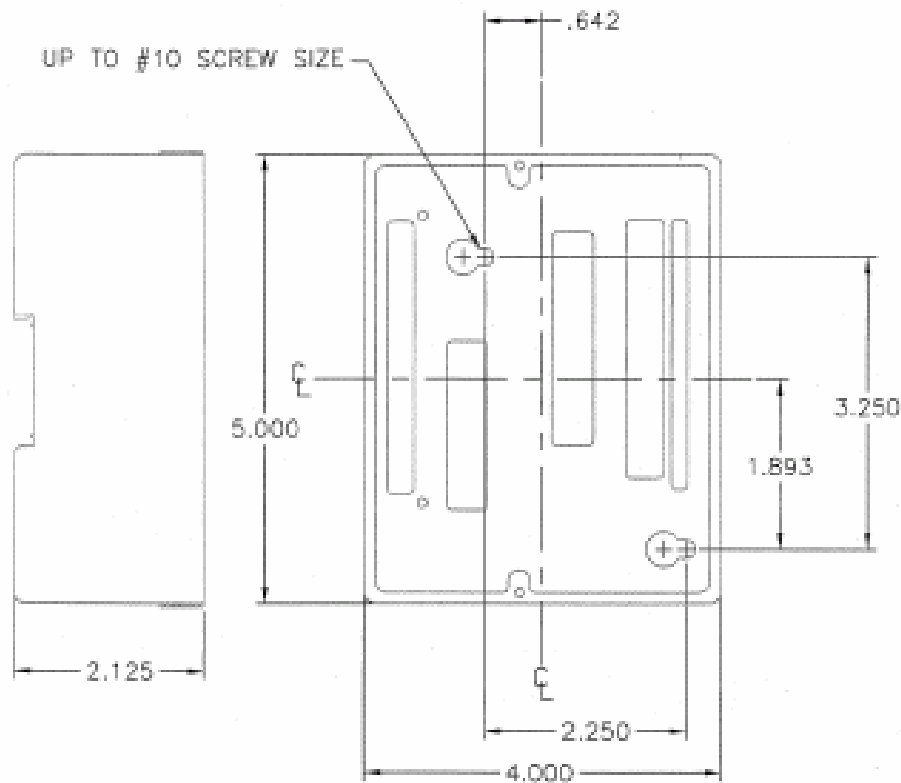




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INSTALLATION INSTRUCTIONS 133-701 PIGTAIL WIRING BASE Used with BurnerLogix Z type only FLAME SAFEGUARD and BOILER CONTROLLER

Wiring base part number **60-2850-1** is a pre-wired wiring base for use with the BurnerLogix Z flame safeguard and boiler control family. As shipped, cable clamps are provided to anchor the wires in the wiring base. For applications requiring alternate mounting, these can be removed and replaced with rigid conduit hubs. Each wire is identified by its unique color and a label identifying the corresponding terminal number. The wiring base can be mounted using either a din rail or direct mounted to a back plate using up to #10-32 screws. The mounting location for the din rail is along the horizontal center line. The mounting information is detailed as follows:



Ensure that electric power is turned off!

WARNING: Installer must be trained and qualified. Follow the burner manufacturer's instructions. Controls require safety limits utilizing isolated mechanical contacts. Electronic limit switches may cause erratic operation and should be avoided.

CAUTION: 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 BurnerLogix.

Terminal No.	Wire Color	Type	Description	Rating
L1 (Hot)	Black		Line voltage supply	120 VAC (+10%,-15%), 50/60 Hz
L2 (Neutral)	White		Line voltage common	
EARTH	Green	Ground		
S1	Red/Wht		Scanner Input	300 VAC, 3 mA
S2	Blu/Wht		Scanner Input	300 VAC, 3 mA
A	Red	Output	Alarm	120 VAC, 1 A pilot duty
M	Brown	Output	Combustion Blower	120 VAC, 9.8 FLA, 58.8 LRA
3	Yellow	Input	Operating Control	120 VAC, 1 mA
13	Orange	Input	Fuel Valve End Switch, Pre-Ignition Interlock	120 VAC, 1 mA
P	Gray	Input	Running Interlock	120 VAC, 1 mA
D	Wht/Brn	Input	Low Fire Start Switch	120 VAC, 1 mA
8	Wht/Gry	Input	Open Damper Proving Switch	120 VAC, 1 mA
W	Wht/Orn	Output	Delayed Main Valve	See Table
5	LT Blue	Output	Pilot Valve	See Table
6	Tan	Output	Ignition	See Table
7	Violet	Output	Main Fuel Valve	See Table
16	DK Blue	Input	Lag 1 Input	SEE BULLETIN BLZ-1001 FOR ALTERNATE USES
21	Pink	Input	Lag 2 Input	
LOW VOLTAGE INPUT / OUTPUT				
12	Wht/Yel	Output	Modulator Drive Positive 4-20 mA Output	
10	Wht/Red	Output	Modulator Drive Common (0 volts)	
X	Wht/Blue	Output	Temp/Pressure Source Voltage (28 Vdc nominal)	
11	Wht/Grn	Input	Temp/Pressure #1 (PCV) 4-20 mA Input	
22	Wht/Vio	Input	Temp/Pressure #2 (AUX 1) 4-20 mA Input	
23	Brn/Wht	Input	Temp/Pressure #3 (AUX 2) 4-20 mA Input	

Combination No.	Pilot	Main	Ignition	Delayed Valve
1	C	E	No Load	No Load
2	B	E	No Load	No Load
3	No Load	E	No Load	B
4	E	E	A	No Load
5	No Load	E	A	E
6	D	E	A	No Load
7	D	D	A	D
8	No Load	D	A	No Load
Composition of each Combination				
A	B	C	D	E
4.5 A Ignition	50 VA Pilot Duty plus 4.5 A Ignition	180 VA Ignition plus motor valves with: 660 VA inrush, 360 VA open, 250 VA hold.	2 A Pilot Duty	65 VA Pilot Duty plus motor valves with: 3850 VA inrush 700 VA open, 250 VA hold

MAXIMUM CONNECTED LOAD NOT TO EXCEED 2000 VA