

# Wiring Cross Reference

TO CONVERT HONEYWELL **R4138C**  
TO **YB110xx**<sup>1</sup>, **BLL510**, **YP300** (see Note 6), and **60-2814-1**

<sup>1</sup>Refer to Amplifier and Scanner Reference Guide

Honeywell	Function	Fireye	
L1	Hot – 120 VAC	L1	
L2	Ground – Neutral	L2	
F	Scanner	S1	
G	Scanner	S2	
7 – 8	Stop Switch	L1 – 3	Note 1
Externally powered	Blower	M	Note 2
N/A	Pre-Ignition Interlocks (Fuel Valve Interlock)	L1 – 13	Note 3
Main Switch – L1	Running Interlocks (Air Flow Switch)	3 – P	
Manual start switch	Ignition	5	
19	Pilot Valve	6	
20	Main Fuel Valve	7	
M	Blower Motor	M	
18 – 17	High Fire Interlock	M – 8	Note 4
6 – Manual Start	Low Fire Start Switch	M – D	Note 5
	<b>Manual Start Switch</b>	M – D	Note 5
16	<b>Alarm</b>	A	

Note 1	Stop switch is wired between L1 – 3. Switch must be closed to light off burner.
Note 2	The blower fan can be either powered externally or connected to terminal M. Terminal M is de-energized after a safety lockout.
Note 3	Jumper terminals L1 - 13
Note 4	The YP300 does not provide a high fire purge interlock.
Note 5	The low fire start switch and manual start switch are wired in series between terminals M – D.
Note 6	Set PROGRAM SETUP VALUES for intermittent operation on terminal 6, infinite wait on M-D input and non-recycle operation on 3 – P.

Refer to Bulletin BL-1001 for correct amplifier selection, proper installation, grounding, operational and safety checkout procedures. Perform safety checks of the entire system prior to allowing fuel entry into boiler. Complete safety checks, flame signal levels, minimum pilot tests with fuel on.