

# Wiring Cross Reference

TO CONVERT HONEYWELL GP101 (R4140M1079)  
TO YB110xx<sup>1</sup>, BLL510, YP300, 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	
S1	Scanner	S1	
S2	Scanner	S2	
L1 - 13	Operating Control	L1 – 3	Note 1
13 - 3	Pre-Ignition Interlocks (Fuel Valve Interlock)	L1 – 13	Note 1
3 - P	Running Interlocks (Air Flow Switch)	3 – P	Note 1
18	5 sec Early Spark Termination	X	Note 2
5	10 sec Interrupted Pilot	5	
6	Intermittent Pilot (Oil Valve for direct spark ignition)	6	Note 3
7	Main Fuel Valve	7	
M	Blower Motor	M	
n/a	Low Fire Start Switch	M - D	Note 4
A	Alarm	A	

Note 1	Terminal 16 on the Honeywell wiring base is used as a tie point only. Identify and isolate the appropriate wires to the operating control, fuel valve end switch, and running interlocks.
Note 2	To use terminal X, jumper terminal 5 to terminal 10 and terminal 10 to L1.
Note 3	On the 4140M-1079, terminal 6 is energized 5 seconds after terminals 18 and 5 are energized. Terminal 5 (Honeywell) energized for a total of 25 seconds. On the Fireye, terminal 6 is energized at the same time as terminals X and 5. Terminal 5 energized for a total of 20 seconds. Terminal W is energized 5 seconds after the start of AUTO.
Note 4	If low fire start switch is not used then jump terminals M-D
Note 5	The default purge time for the YP300 is 30 seconds. Use keypad/display module to set purge time to 90 seconds or appropriate value.

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.