

# Wiring Cross Reference

HONEYWELL R4140L1147

TO E110, ED510, EP160, 60-1386-2 (See Note 1 and 2).

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      |            |
| L1 – 4                    | Operating Control                               | L1 – 13 |            |
| 4 - 16                    | Pre-Ignition Interlocks<br>Fuel Valve Interlock | 13 – 3  |            |
| 16 – 3                    | Running Interlocks<br>(Air Flow Switch)         | 3 – P   |            |
| 5                         | 10 Sec – Interrupted Pilot                      | 5       |            |
| 6                         | 15 or 30 Sec – Interrupted Pilot                | 6       | See Note 1 |
| 18                        | 5 Sec – Early Spark Termination                 | 5       | See Note 2 |
| 7                         | Main Fuel Valve                                 | 7       |            |
| 8                         | Blower Motor                                    | M       |            |
| 8 – 13                    | Low Fire Start Switch                           | M – D   |            |
| 15 – 8                    | High Fire Start Switch                          | D - 8   | See Note 3 |
| 9                         | Alarm   | A       |            |
| <b>Modulation Circuit</b> |   |         |            |
| 10                        | High Fire                                       | X       |            |
| 11                        | Common  | 10      |            |
| 12                        | Auto  | 11      |            |
| 14                        | Low Fire  | 12      |            |

Note 1 The R4140L1147 provides a 15 or 30 second (field selectable) MTFI timing on terminal 6. 15 sec without jumper, 30 sec with jumper. 15 sec – use **EP160**, 30 sec – use **EP161**.

Note 2 If terminal 18 (early spark termination) is used, use **EP170** programmer.

Note 3 Move high fire start switch wire from Honeywell terminal 15 to Fireye terminal D. Move high fire start switch wire from Honeywell terminal 8 to Fireye terminal 8.

Refer to Bulletin E-1101 for 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.