

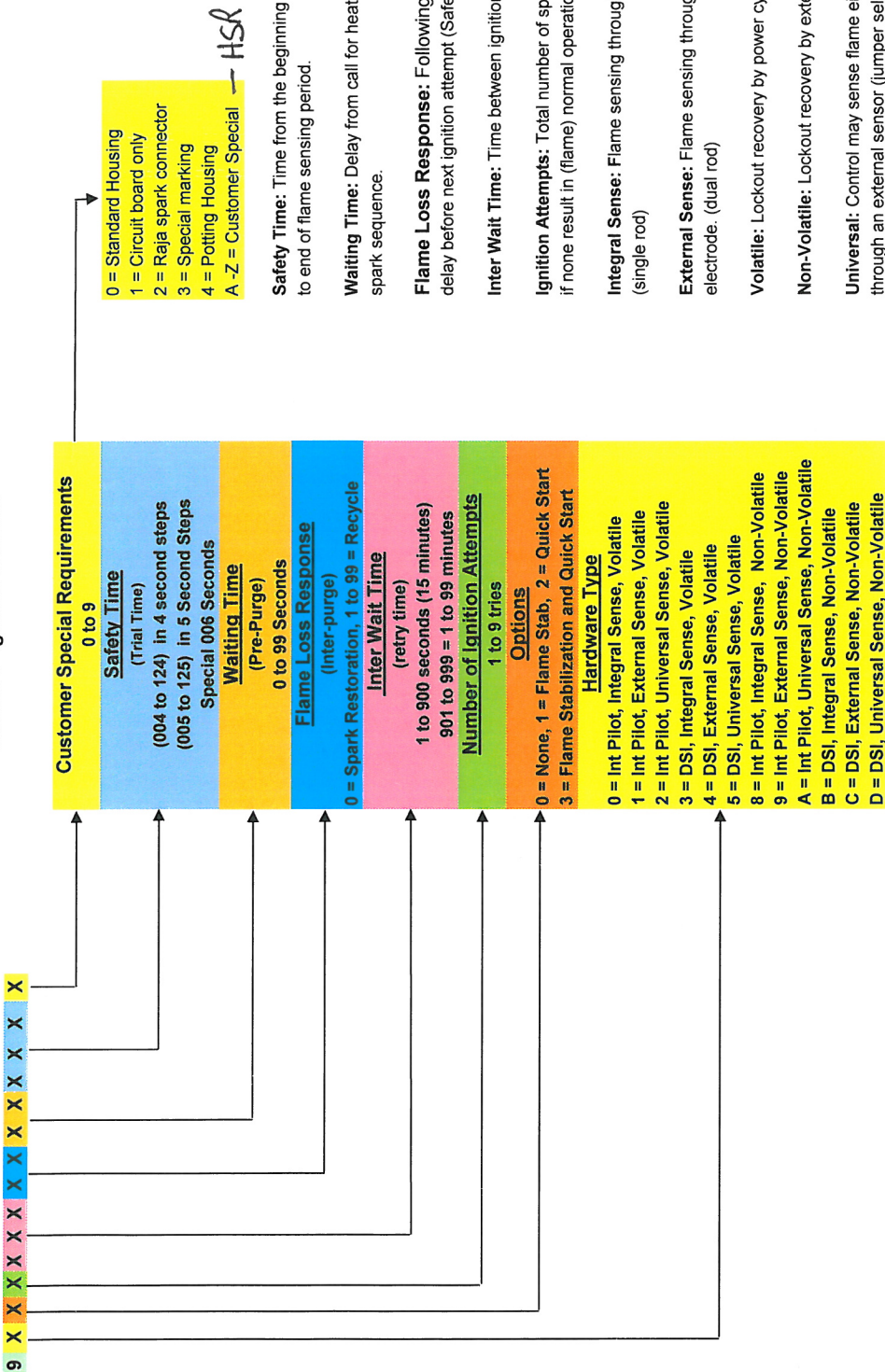
Capable Controls Inc.

9X Series CE Listed Controls

AGA, CSA, CE Certified
DSI and IP Ignition Controls

Enter Part Number

9									
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Customer Special Requirements 0 to 9
Safety Time (Trial Time) (004 to 124) in 4 second steps (005 to 125) in 5 Second Steps Special 006 Seconds
Waiting Time (Pre-Purge) 0 to 99 Seconds
Flame Loss Response (Inter-purge) 0 = Spark Restoration, 1 to 99 = Recycle
Inter Wait Time (retry time) 1 to 900 seconds (15 minutes) 901 to 999 = 1 to 99 minutes
Number of Ignition Attempts 1 to 9 tries
Options 0 = None, 1 = Flame Stab, 2 = Quick Start 3 = Flame Stabilization and Quick Start
Hardware Type 0 = Int Pilot, Integral Sense, Volatile 1 = Int Pilot, External Sense, Volatile 2 = Int Pilot, Universal Sense, Volatile 3 = DSI, Integral Sense, Volatile 4 = DSI, External Sense, Volatile 5 = DSI, Universal Sense, Volatile 8 = Int Pilot, Integral Sense, Non-Volatile 9 = Int Pilot, External Sense, Non-Volatile A = Int Pilot, Universal Sense, Non-Volatile B = DSI, Integral Sense, Non-Volatile C = DSI, External Sense, Non-Volatile D = DSI, Universal Sense, Non-Volatile

- 0 = Standard Housing
- 1 = Circuit board only
- 2 = Raja spark connector
- 3 = Special marking
- 4 = Potting Housing
- A-Z = Customer Special — HSR

Safety Time: Time from the beginning of sparking to end of flame sensing period.

Waiting Time: Delay from call for heat to start of spark sequence.

Flame Loss Response: Following flame loss, the time delay before next ignition attempt (Safety Time).

Inter Wait Time: Time between ignition attempts.

Ignition Attempts: Total number of spark sequences if none result in (flame) normal operation, then lockout.

Integral Sense: Flame sensing through spark electrode. (single rod)

External Sense: Flame sensing through separate electrode. (dual rod)

Volatile: Lockout recovery by power cycling.

Non-Volatile: Lockout recovery by external switch.

Universal: Control may sense flame either integrally or through an external sensor (jumper selectable).

Definitions:

Quick Start: (External sense only) Sparking period is 0.4 seconds followed by a 0.5 second flame test confirmation period. (repeating)

Flame Stabilization: If flame is lost within first 5 seconds main valve turns off and begin sparking. If flame is lost after 5 seconds of operation main and pilot valve turn off waits inter-purge time and begins sparking. Control must be ordered with Flame Loss Waiting time of 1 second or more.

Spark Restoration: Main valve is turned off, pilot valve stays on, sparking starts immediately, if flame loss after 5 seconds, do recycle. (wait Flame Loss Response Time)

Recycle: Pilot and main valve turn off, new ignition cycle begins following Flame Loss Waiting Time.

High Spark Rate: Increased spark/second rate.

Customer Special: See page two.