SERIES 5X

DSI and IP Ignition Controls

Models w/wo combustion blower option

Model breakdown boxes: `x` `5` `x x` `x` `x` `x x` `xx` `xxx` `xx` `x`

Reignition and Retry Mode

0 = Non-reignition	1 = Reignition
2 = Non-reignition 5 min retry	3 = Reignition 5 min retry
4 = Non-reignition 60 min retry	5 = Reignition 60 min retry
8 = 60 min. lockout recovery	

Postpurge
00 to 99   1 second intervals

Ignition Trial Time
003 to 250, 1 Sec. intervals

Prepurge Time
00 to 99   1 second intervals

Interpurge Time
00 to 99   1 second intervals

Ignition Trials
1 to 9   or continuous = 0

Options
0 = No options
1 = Quick Start = QS
2 = Flame Stabilization = FS
3 = FS + QS
4 = High Spark Rate = HSR
5 = QS + HSR
6 = FS + HSR
7 = QS + FS + HSR
8 = Customer special, Refer to page 2

Hardware Type
01 to 64
See Table 1

Model Type
5

Construction
P=potted, S=standard housing, B=board only

Table 1 Hardware Types

UNIVERSAL TYPES

#	Type
01	UNIV, DSI, 24V, B
02	UNIV, DSI, 120VAC, B
03	UNIV, DSI, 24VAC
04	UNIV, DSI, 120VAC
05	UNIV, IP, 24VAC, RO
06	UNIV, IP, 120VAC, RO
07	UNIV, IP, 24VAC
08	UNIV, IP, 120VAC

INTERNAL SENSE TYPES

#	Type
09	OEM, INT, DSI, 24VAC, RO
10	OEM, INT, DSI, 120VAC, RO
11	OEM, INT, DSI, 24VAC, RO, A5V
12	OEM, INT, DSI, 120VAC, RO, A5V
13	OEM, INT, DSI, 24VAC, RO, A24VAC
14	OEM, INT, DSI, 120VAC, RO, A120VAC
15	OEM, INT, DSI, 24VAC, RO, A24VHW
16	OEM, INT, DSI, 120VAC, RO, A120VHW
17	OEM, INT, DSI, 24VAC
18	OEM, INT, DSI, 120ACV
19	OEM, INT, DSI, 24VAC, A5V
20	OEM, INT, DSI, 120VAC, A5V
21	OEM, INT, DSI, 24VAC, A24VAC
22	OEM, INT, DSI, 120VAC, A120VAC
23	OEM, INT, DSI, 24VAC, A24VHW
24	OEM, INT, DSI, 120VAC, A120VHW
25	OEM, INT, IP, 24VAC, RO
26	OEM, INT, IP, 120VAC, RO
27	OEM, INT, IP, 24VAC
28	OEM, INT, IP, 120VAC
29	OEM, INT, DSI, 24VAC, B
30	OEM, INT, DSI, 120VAC, B
31	OEM' INT, DSI, 24VAC, B, A5V
32	OEM, INT, DSI, 120VAC, B, A5V
33	OEM, INT, DSI, 24VAC, B, A24VFW
34	OEM, INT, DSI, 120VAC, B, A120VFW

#	Type
35	OEM, INT, DSI, 24VAC, B, A24VHW
36	OEM, INT, DSI, 120VAC, B, A120VHW

EXTERNAL SENSE TYPES

#	Type
37	OEM, EXT, DSI, 24VAC, RO
38	OEM, EXT, DSI, 120VAC, RO
39	OEM, EXT, DSI, 24VAC, RO, A5V
40	OEM, EXT, DSI, 120VAC, RO, A5V
41	OEM, EXT, DSI, 24VAC, RO, A24VAC
42	OEM, EXT, DSI, 120VAC, RO, A120VAC
43	OEM, EXT, DSI, 24VAC, RO, A24VHW
44	OEM, EXT, DSI, 120VAC, RO, A120VHW
45	OEM, EXT, DSI, 24VAC
46	OEM, EXT, DSI, 120ACV
47	OEM, EXT, DSI, 24V, A5V
48	OEM, EXT, DSI, 120VAC, A5V
49	OEM, EXT, DSI, 24VAC, A24VAC
50	OEM, EXT, DSI, 120VAC, A120VAC
51	OEM, EXT, DSI, 24VAC, A24VHW
52	OEM, EXT, DSI, 120VAC, A120VHW
53	OEM, EXT, IP, 24VAC, RO
54	OEM, EXT, IP, 120VAC, RO
55	OEM, EXT, IP, 24VAC
56	OEM, EXT, IP, 120VAC
57	OEM, EXT, DSI, 24VAC, B
58	OEM, EXT, DSI, 120VAC, B
59	OEM' EXT, DSI, 24VAC, B, A5V
60	OEM, EXT, DSI, 120VAC, B, A5V
61	OEM, EXT, DSI, 24VAC, B, A24VAC
62	OEM, EXT, DSI, 120VAC, B, A120VAC
63	OEM, EXT, DSI, 24VAC, B, A24VHW
64	OEM, EXT, DSI, 120VAC, B, A120VHW

SPECIAL TYPES

#	Type
65	OEM, EXT, DSI, B, 24V THERM, 120VAC PWR
66	OEM, EXT, IP, 24VAC, Damper Plug
67	OEM, EXT, DSI, 24V, B , no APS
68	OEM, INT, IP, 120VAC, REMOTE LED
69	OEM, INT, DSI, 120VAC, B, Therm, Remote LED

Abbreviations, Definitions:

UNIV - Universal, DSI - Direct Spark Ignition, IP - Intermittent Pilot, B - Blower, RO - Rollout, A5V - Alarm 5VDC, A24VHW - Alarm 24VAC 1/2 Wave

A24VAC - Alarm 24VAC,   , A120VAC - Alarm 120VAC, EXT - External Flame Sensor, INT - Integral Flame Sensing (through spark electrode)

If 'B' Blower option is selected, control is furnished with 'Pressure Switch' input. Except hardware type (67).

Quick Start - provides a short 0.4 Sec. sparking period followed by a 0.5 Sec. flame test. Combustion can be initiated and validated within one second.

Flame Stabilization - If flame loss within first 5 Sec.main valve turn off and begins sparking. If flame loss after 5 Sec. main

and pilot valve turn off waits interpurge time and begins sparking.

Reignition: If established flame is lost main valve is turned off, sparking begins within 1 second to re-light pilot burner. If succesfull norman cycle begins.

HSR - 20 to 40 Hz. spark rate.

IE - Increased spark energy

THERM - Control derives 24VAC thermostat signal from 120VAC

Universal types include (1), part number 850A0407 Universal Part Kit

Matrix3e