

## **Programming Notes for Siemens FSCS Panels by Automation Displays Inc.**

This document lists some points that may need to be included in the MBC database when setting up and running Siemens FSCS panels manufactured by ADI.

### INPUT DISABLE Virtual Point:

Point Descriptor: DISABL INPUT

Point Name: DISIN

Point Type: LDO

Physical Address: I/O card 0, Point 81.

This point should be characterized in the MBC database if there is a "Panel Disable" switch on the FSCS panel. It indicates to the Z-Card in the FSCS panel that the first switch point address on the lowest addressed input card is to function as a Panel Disable switch.

When this switch is turned on (closed circuit), or point 81 is commanded ON, input reporting is disabled for all inputs except the "Panel Disable" switch. Input reporting is enabled when this switch and point 81 are both OFF.

If point 81 is not included in the MBC database, the first switch on the lowest addressed input card functions the same as the other switches.

The "Panel Disable" switch may also be labeled with other names on the graphic such as "Panel Enable" or "Fireman's Keyswitch", but the function is the same.

### PANEL ACTIVE Virtual Point:

Point Descriptor: PANEL ACTIVE

Point Name: PNLACT

Point Type: LDI

Physical Address: I/O card 0, Point 80.

This point should be characterized in the MBC database if there is a "Panel Active" indicator on the FSCS panel. It will then light when one or more switches (excluding the "Input Disable" switch) are in any active position.

### EXTERNAL INPUTS Virtual Point:

Point Descriptor: EXTERN INPUTS

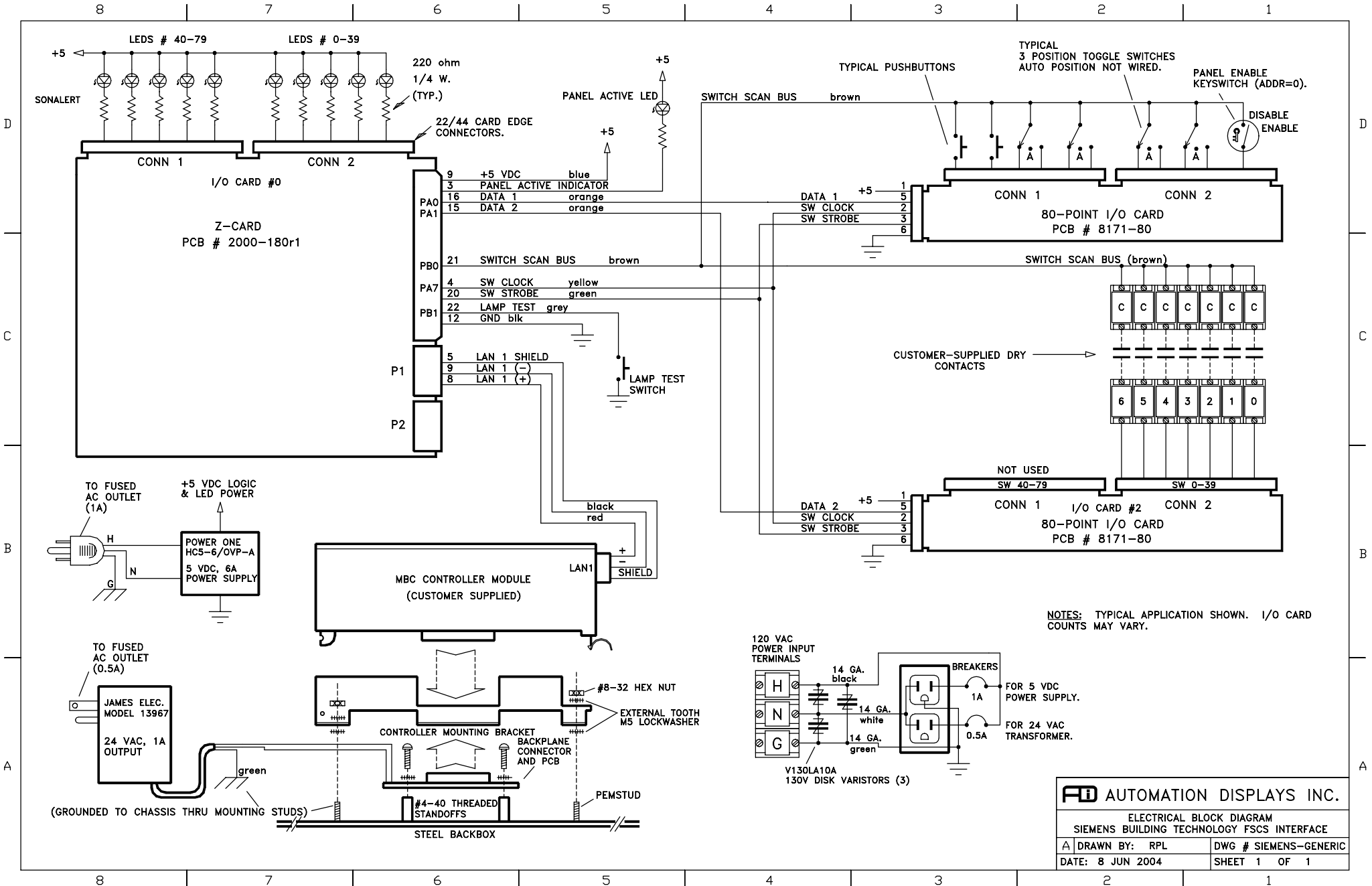
Point Name: EXTIN

Point Type: LAO

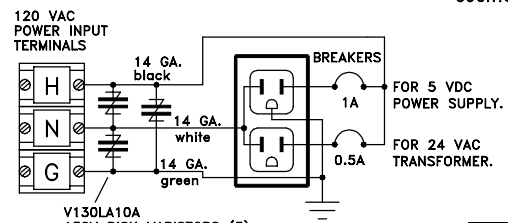
Physical Address: I/O card 0, Point 83.

This point should be characterized in the MBC database if there is an External Input card or cards used in the FSCS panel. It should be initialized to a value (0-7) that is equal to the first I/O card address that is used for external inputs in the panel.

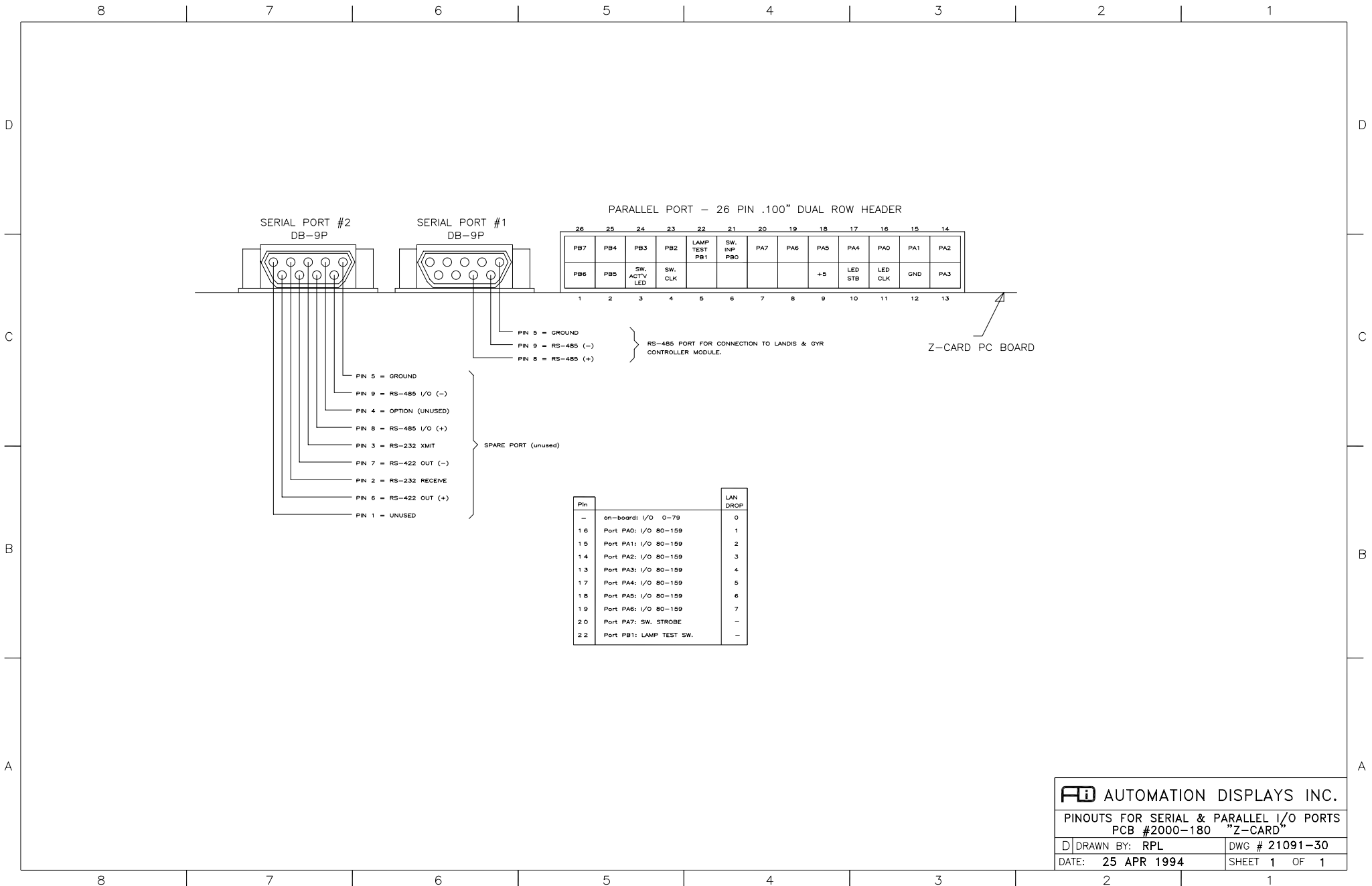
For example: If the EXTIN point is in the database and initialized to "2", the Z-Card will treat I/O card 2 and any card after as an External Input card. External input points are like other switch inputs but do not affect the Panel Active LED on the graphic or the Panel Active virtual point.



NOTES: TYPICAL APPLICATION SHOWN. I/O CARD COUNTS MAY VARY.



<b>AD</b> AUTOMATION DISPLAYS INC.	
ELECTRICAL BLOCK DIAGRAM SIEMENS BUILDING TECHNOLOGY FCS INTERFACE	
A	DRAWN BY: RPL
DATE: 8 JUN 2004	DWG # SIEMENS-GENERIC
	SHEET 1 OF 1



DIP SWITCH POSITION  
1 - ALWAYS OFF

DIP SWITCH POSITION  
2 - ALWAYS OFF

<u>DIP SWITCH POSITION</u>		<u>BAUD RATE</u>
4	3	
OFF	OFF	4800
OFF	DN	9600
DN	OFF	19,200
DN	DN	38,400

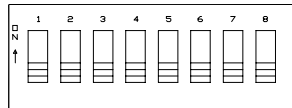
DIP SWITCH POSITION  
8 7 6 5

OFF	OFF	OFF	OFF
OFF	OFF	OFF	DN
OFF	OFF	DN	OFF
OFF	OFF	DN	DN
OFF	DN	OFF	OFF
OFF	DN	OFF	DN
OFF	DN	DN	OFF
OFF	DN	DN	DN
DN	OFF	OFF	OFF
DN	DN	DN	DN

<u>CARD CONFIGURATION</u>								
Z-CARD	I/O 1	I/O 2	I/O 3	I/O 4	I/O 5	I/O 6	I/O 7	
IN	X	X	X	X	X	X	X	X
OUT	IN	X	X	X	X	X	X	X
OUT	OUT	IN	X	X	X	X	X	X
OUT	OUT	OUT	IN	X	X	X	X	X
OUT	OUT	OUT	OUT	IN	X	X	X	X
OUT	OUT	OUT	OUT	OUT	IN	X	X	X
OUT	OUT	OUT	OUT	OUT	IN	X	X	X
OUT	OUT	OUT	OUT	OUT	OUT	IN	X	X
OUT	OUT	OUT	OUT	OUT	OUT	OUT	IN	X
OUT	?	?	?	?	?	?	?	?
40/40	-	-	-	-	-	-	-	-

- = DEVICE NOT ALLOWED.  
X = INPUT OR DEVICE NOT PRESENT.  
? = OUTPUT OR DEVICE NOT PRESENT.

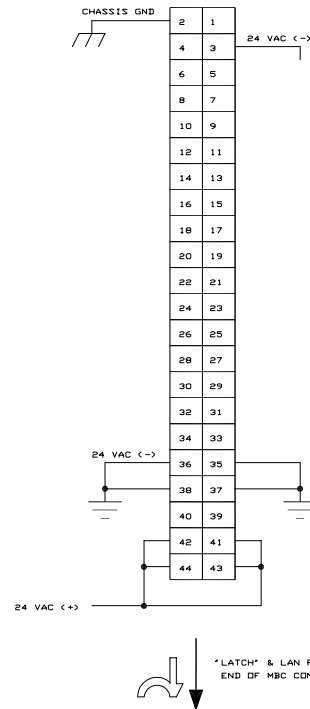
NOTES:  
WHEN DIP SWITCH SETTINGS ARE CHANGED, PRESS RESET SWITCH ON Z-CARD TO ACTIVATE NEW SETTINGS.



DIP SWITCH LOCATED ON Z-CARD.



CONTROLLER MODULE CONNECTOR  
(BOTTOM VIEW)



\*LATCH\* & LAN PORT  
END OF MBC CONTROLLER

<b>AD</b> AUTOMATION DISPLAYS INC.		
Z-CARD DIP SWITCH CONFIGURATION SETTINGS LANDIS & GYR FSCS SYSTEMS		
D	DRAWN BY: TN/rpl	DWG # 21091-40
DATE: 14 NOV 1994	SHEET 1 OF 1	

### FSCS INDICATOR SCHEDULE

I/O Card Address* =								
POINT NO.	ID NO. SHOWN ON GRAPHIC (Lxxx)	Con/ Pin	DEVICE		INDICATE WITH AN X		EQUIPMENT MONITORED	SYSTEM 600 POINT NAME
			RED LED	GREEN LED	YELLOW LED	SONALERT		
00		2/21						
01		2/Y						
02		2/20						
03		2/X						
04		2/19						
05		2/W						
06		2/18						
07		2/V						
08		2/17						
09		2/U						
10		2/16						
11		2/T						
12		2/15						
13		2/S						
14		2/14						
15		2/R						
16		2/13						
17		2/P						
18		2/12						
19		2/N						
20		2/11						
21		2/M						
22		2/10						
23		2/L						
24		2/9						
25		2/K						
26		2/8						
27		2/J						
28		2/7						
29		2/H						
30		2/6						
31		2/F						
32		2/5						
33		2/E						
34		2/4						
35		2/D						
36		2/3						
37		2/C						
38		2/2						
39		2/B						

\* All indicator Schedules and Switch Schedules must be sequentially numbered, beginning with address 00.  
 All Indicator Schedules must use lower I/O Card addresses than Switch Schedules.

### FSCS INDICATOR SCHEDULE

I/O Card Address* =								
POINT NO.	ID NO. <small>SHOWN ON GRAPHIC (Lxxx)</small>	Con/ Pin	DEVICE INDICATE WITH AN X				EQUIPMENT MONITORED	SYSTEM 600 POINT NAME
			RED LED	GREEN LED	YELLOW LED	SONALERT		
40		1/21						
41		1/Y						
42		1/20						
43		1/X						
44		1/19						
45		1/W						
46		1/18						
47		1/V						
48		1/17						
49		1/U						
50		1/16						
51		1/T						
52		1/15						
53		1/S						
54		1/14						
55		1/R						
56		1/13						
57		1/P						
58		1/12						
59		1/N						
60		1/11						
61		1/M						
62		1/10						
63		1/L						
64		1/9						
65		1/K						
66		1/8						
67		1/J						
68		1/7						
69		1/H						
70		1/6						
71		1/F						
72		1/5						
73		1/E						
74		1/4						
75		1/D						
76		1/3						
77		1/C						
78		1/2						
79		1/B						
<b>Panel Active 1</b>						<b>Turns on when any switch is moved from the auto position</b>	<b>Not controllable Z</b>	

\* All indicator Schedules and Switch Schedules must be sequentially numbered, beginning with address 00.  
 All indicator Schedules must use lower I/O Card addresses than Switch Schedules.  
 † The Panel Active function is resident in the FSCS, and does not take up one of your available outputs. Include one per FSCS.

### FSCS SWITCH AND INPUT SCHEDULE

I/O Card Address* =								
POINT NO.	ID NO. SHOWN ON GRAPHIC (SXXX)	Con/ Pin	INPUT TYPE ( indicate with X )				EQUIPMENT MONITORED	SYSTEM 600 POINT NAME
			Toggle	Push Button	Rotary	Terminal Block**		
00		2/21						
01		2/Y						
02		2/20						
03		2/X						
04		2/19						
05		2/W						
06		2/18						
07		2/V						
08		2/17						
09		2/U						
10		2/16						
11		2/T						
12		2/15						
13		2/S						
14		2/14						
15		2/R						
16		2/13						
17		2/P						
18		2/12						
19		2/N						
20		2/11						
21		2/M						
22		2/10						
23		2/L						
24		2/9						
25		2/K						
26		2/8						
27		2/J						
28		2/7						
29		2/H						
30		2/6						
31		2/F						
32		2/5						
33		2/E						
34		2/4						
35		2/D						
36		2/3						
37		2/C						
38		2/2						
39		2/B						

\*\* Terminal blocks cannot be combined on the same I/O card with switches.  
 \* All indicator Schedules and Switch Schedules must be sequentially numbered, beginning with address 00. Indicator Schedules must use lower I/O Card addresses than Switch Schedules. Switch cards must use lower addresses than terminal block cards.

### FSCS SWITCH AND INPUT SCHEDULE

I/O Card Address* =								
POINT NO.	ID NO. SHOWN ON GRAPHIC (SXXX)	Cor/ Pin	INPUT TYPE ( indicate with X )				EQUIPMENT MONITORED	SYSTEM 600 POINT NAME
			Toggle	Push Button	Rotary	Terminal Block**		
40		1/21						
41		1/Y						
42		1/20						
43		1/X						
44		1/19						
45		1/W						
46		1/18						
47		1/V						
48		1/17						
49		1/U						
50		1/16						
51		1/T						
52		1/15						
53		1/S						
54		1/14						
55		1/R						
56		1/13						
57		1/P						
58		1/12						
59		1/N						
60		1/11						
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65		1/K						
66		1/8						
67		1/J						
68		1/7						
69		1/H						
70		1/6						
71		1/F						
72		1/5						
73		1/E						
74		1/4						
75		1/D						
76		1/3						
77		1/C						
78		1/2						
79		1/B						
<b>Lamp Test 1</b>	LT						<b>Turn on all FSCS Lights while switch is active.</b>	<b>Not accessible from System 600</b>

\*\* Terminal blocks cannot be combined on the same I/O card with switches.  
 \* All indicator Schedules and Switch Schedules must be sequentially numbered, beginning with address 00. Indicator Schedules must use lower I/O Card addresses than Switch Schedules. Switch cards must use lower addresses than terminal block cards.  
 † The Lamp Test function is resident in the FSCS, and does not take up one of your available inputs. Include one per FSCS.