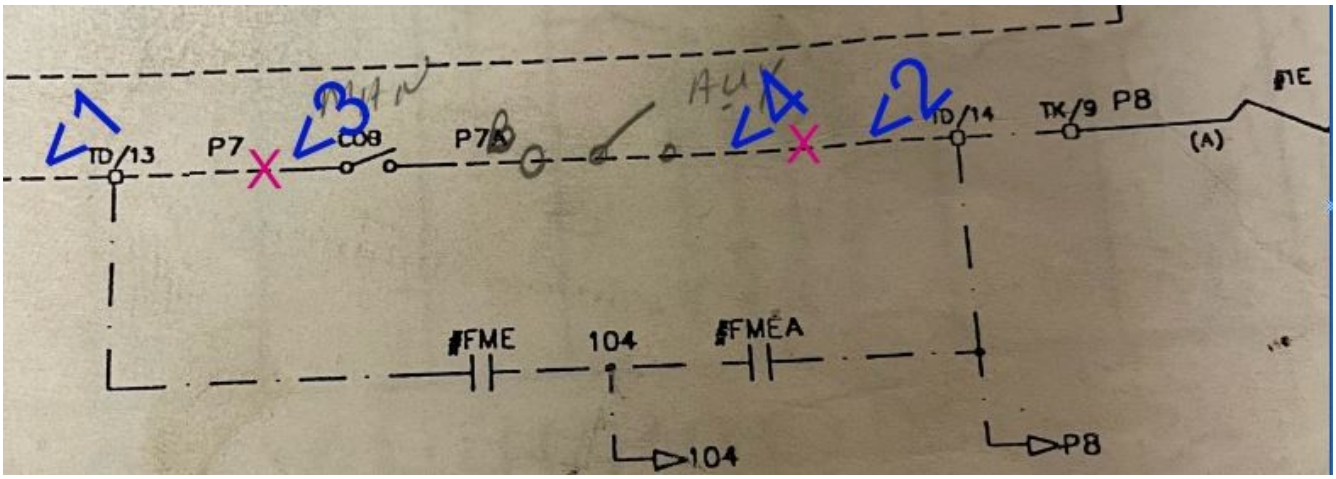
FS90 Fujitec Millenium EXAMPLE
1 GREEN 24VDC FS90 Board
1 120vac aux relay
1 24vdc aux relay

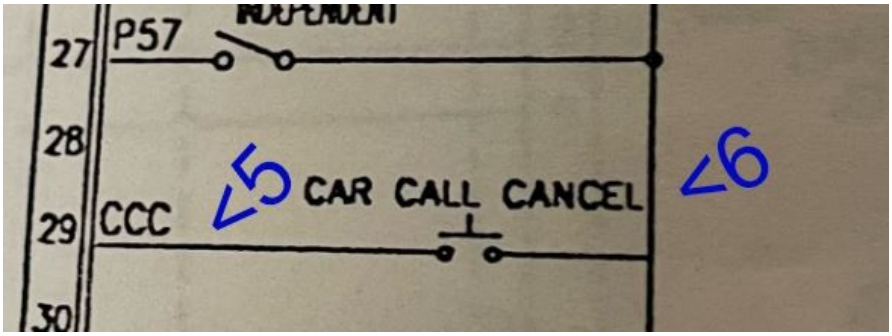
Each installation may be different. DUPLEX may require additional changes to PHI circuits

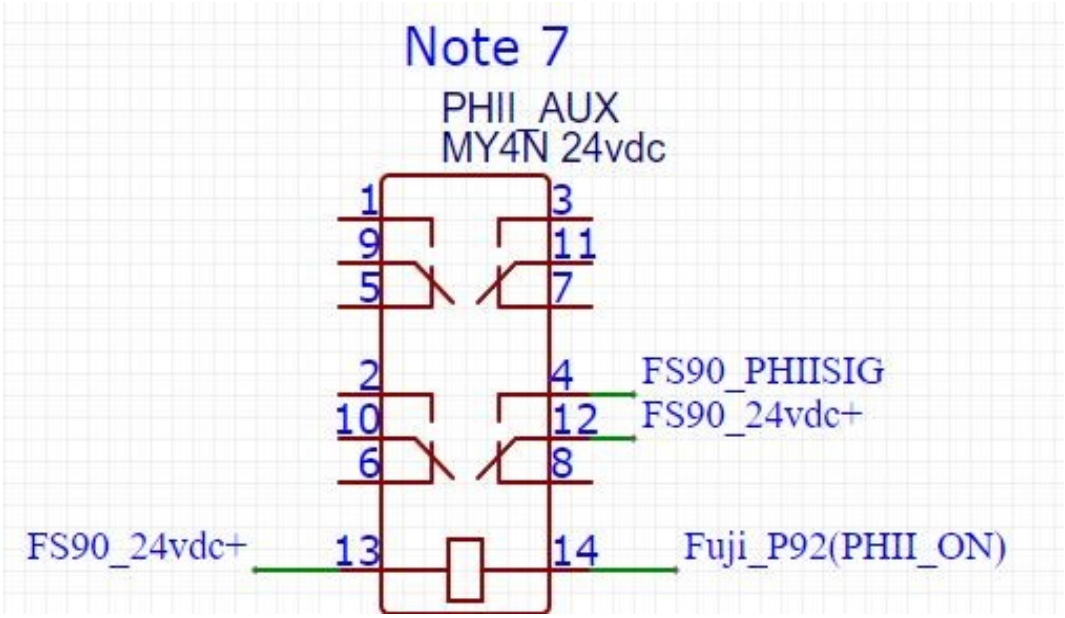
Notes:
Red X indicates cut in existing circuit.
Blue numbers on marked up drawings relate to the corresponding note numbers below

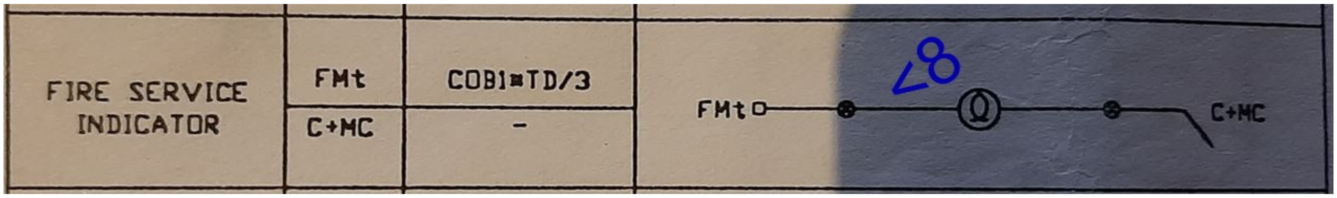
Step	Wire#	Instruction
1		Connect to one of the STP terminals on the FS90 Board
2		Connect to remaining STP terminal on the FS90 Board
3		Connect to one of the KEY STOP terminals on the FS90 Board
4		Connect to remaining KEY STOP terminal on the FS90 Board
5		Connect to one CC terminal on FS90 Board
6		Connect to remaining CC terminal on FS90 Board
7		See PHII Aux Relay drawing below
8		Connect to Key/Hat input on the FS90 Board. Move jumper to side closest to terminals
9		See DZ Aux Relay drawing below
10		Connect 24VDC+ Source from Controller to the 24VDC+ Terminal on the FS90 Board
11		Connect 24VDC- Source from Controller to the 24VDC- Terminal on the FS90 Board
12		
13		
14		
15		

NOTE BEFORE STARTING:
* Test PHII doors while holding the CC button before beginning. If doors do not operate properly you may have to break up the Car Call button feed instead of using the CC terminals to parallel the Call Cancel Button. In this case, you'd use the CC terminals to pull a relay and break a n/c contact that would normally feed the Car Calls.
* Call car to Fire floor using the PHI Hall Key. Does the in car fire light stay on after the doors open fully?
* Place car on PHII. While holding the Call Cancel button, try to set up a call. No call should be accepted.
* Close the car door on PHII. While holding the Call Cancel button, try to set up a call. No call should be accepted, and the car should not move. If a call is accepted you will need to break up the car call button feeds.

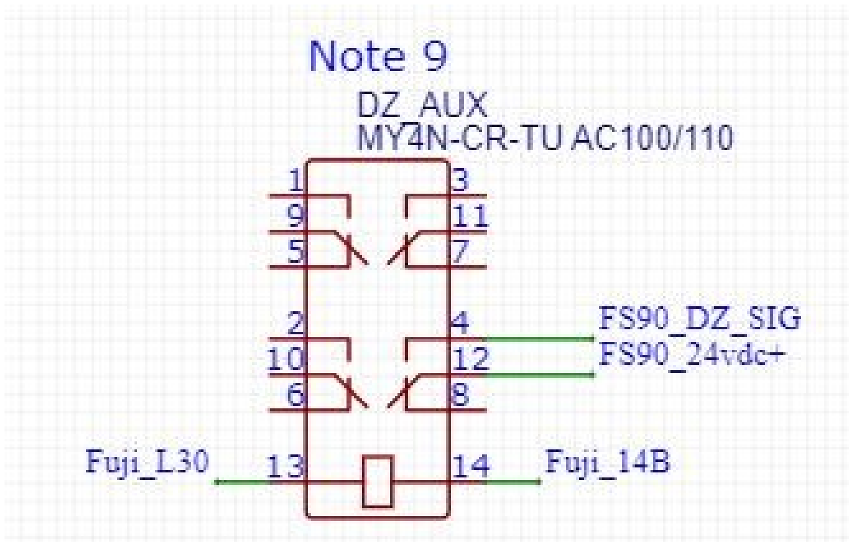

TD/13
P7
COB
P7B
TD/14
TK/9 P8
(A)
#FME
104
#FMEA
104
P8


27
P57
28
29
CCC
CAR CALL CANCEL
30


Note 7
PHII AUX
MY4N 24vdc
1
3
9
11
5
7
2
4
FS90_PHIISIG
10
12
FS90_24vdc+
6
8
FS90_24vdc+
13
14
Fuji_P92(PHII_ON)



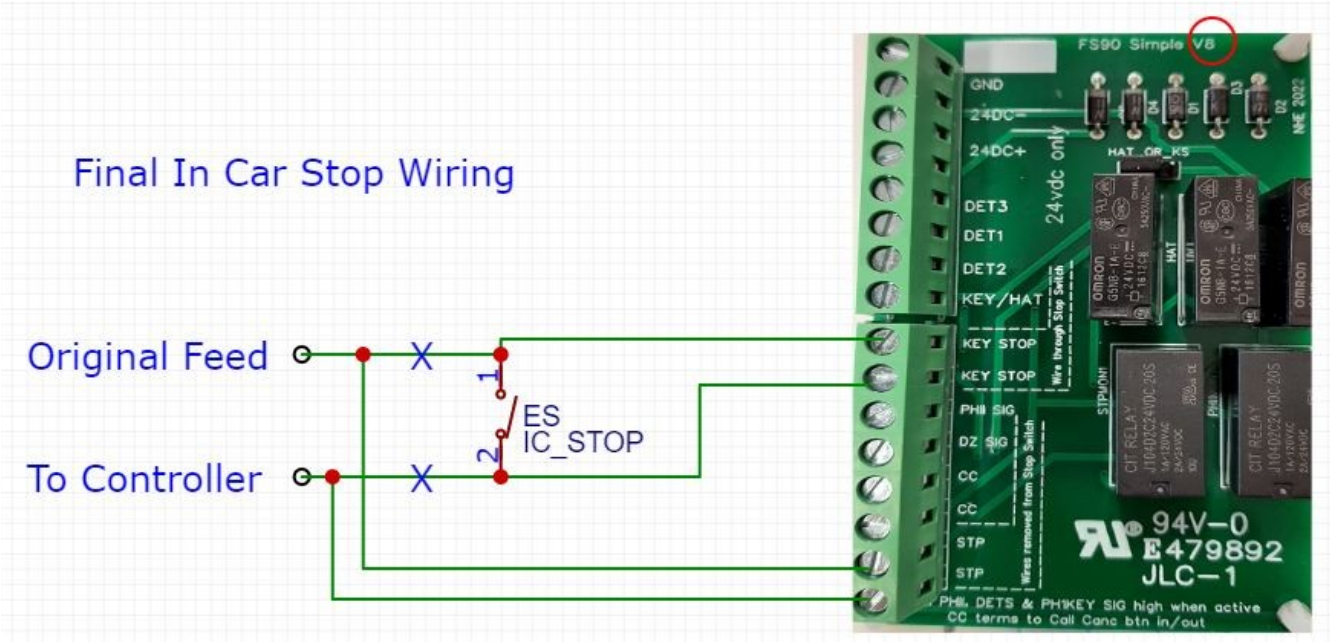
FIRE SERVICE INDICATOR	FMt	COB1*TD/3	
	C+MC	-	

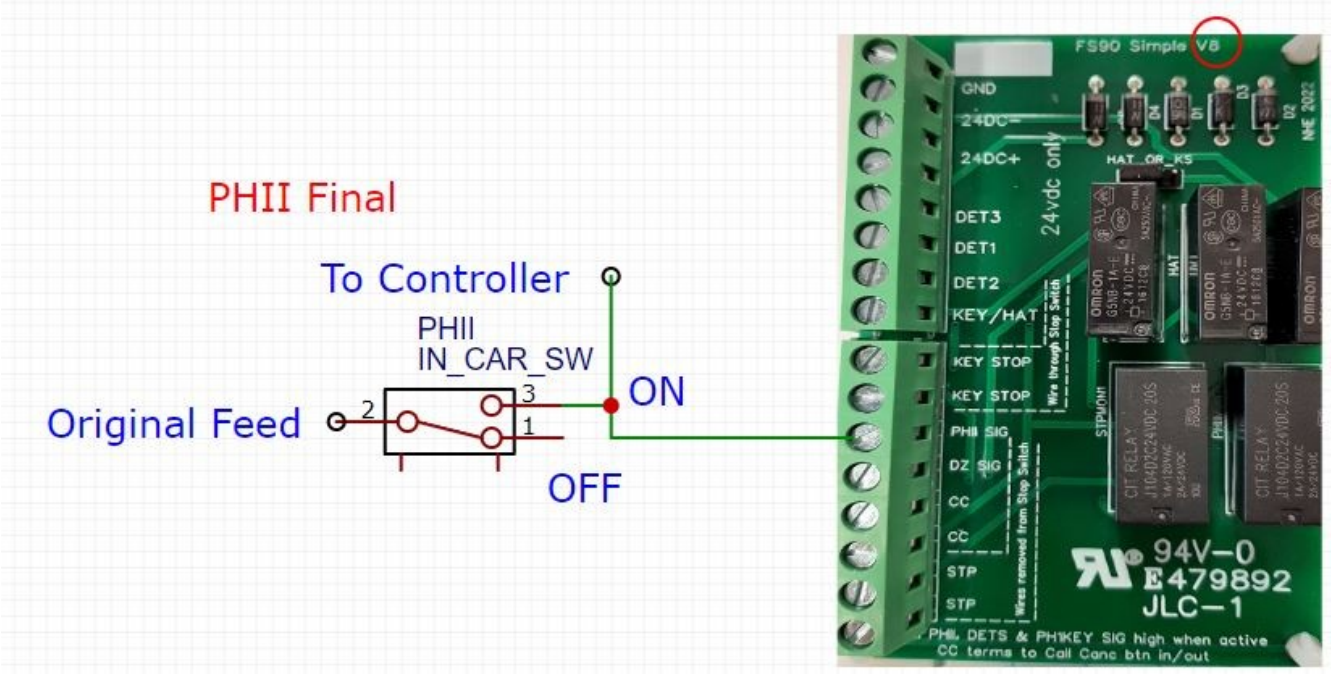


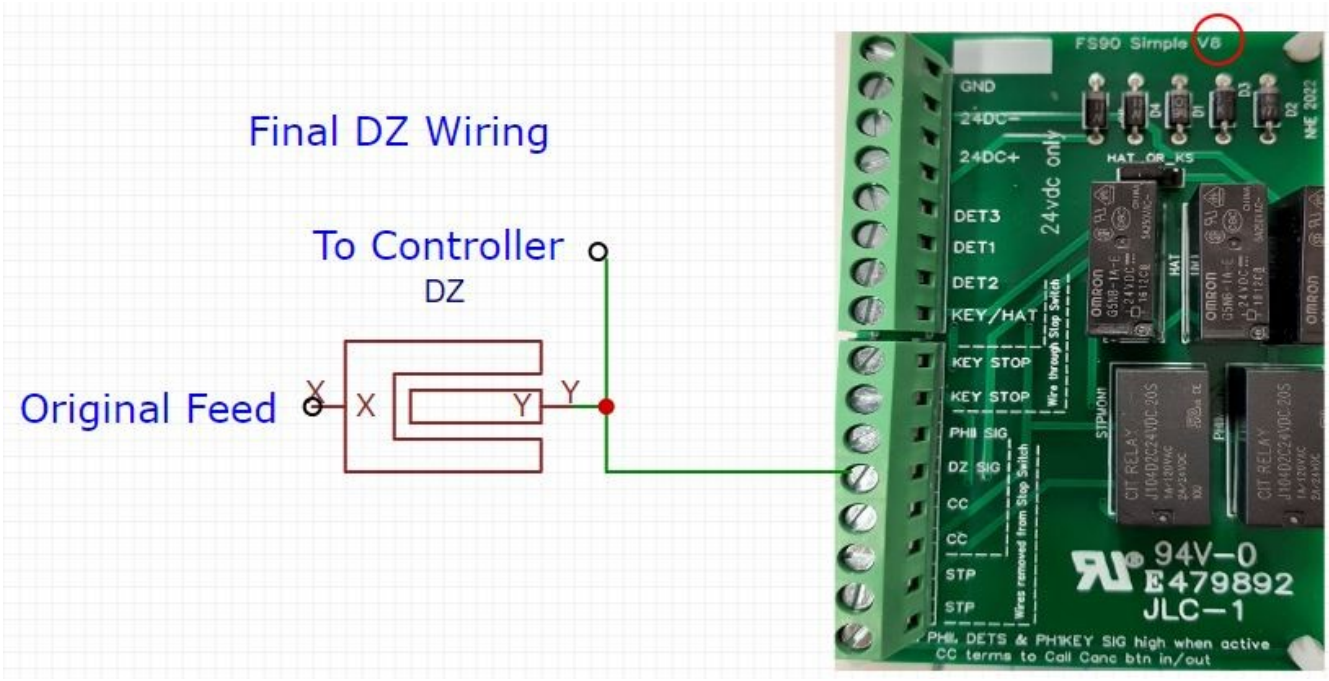
GENERIC WIRING EXAMPLES
FS90 Simple V8
Use correct connections for each individual system.

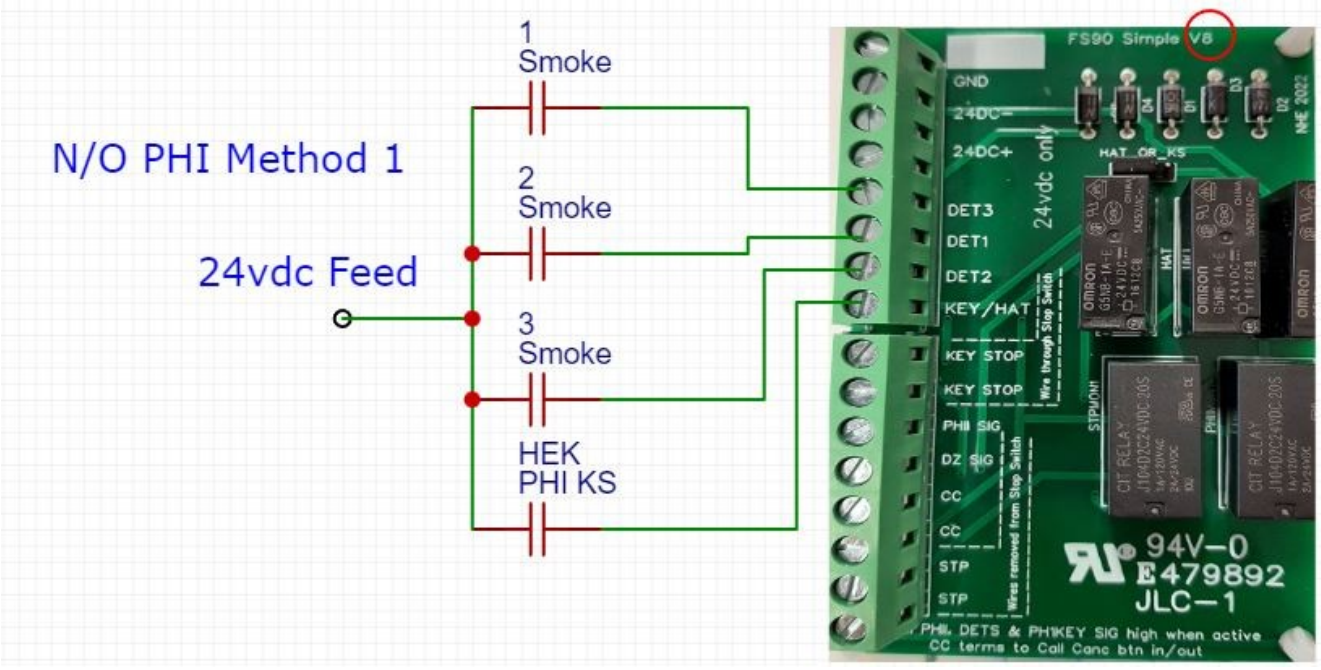
STP = terminals = N/O Relay contact
CC terminals = N/O Relay contact

All other connections are 24VDC referenced to 24vdc- terminal on FS90 Board






Final DZ Wiring
To Controller
DZ
Original Feed
X
X
Y
Y
FS90 Simple V8
GND
24DC-
24DC+
24vdc only
HAT_OR_KS
DET3
DET1
DET2
KEY/HAT
KEY STOP
KEY STOP
PHII SIG
DZ SIG
CC
CC
STP
STP
Wires removed from Stop Switch
Wire through Stop Switch
94V-0
E479892
JLC-1
PHII, DETS & PHIKEY SIG high when active
CC terms to Call Canc btn in/out


N/O PHI Method 1
24vdc Feed
1
Smoke
2
Smoke
3
Smoke
HEK
PHI KS
FS90 Simple V8
GND
24DC-
24DC+
24vdc only
HAT_OR_KS
DET3
DET1
DET2
KEY/HAT
KEY STOP
KEY STOP
PHII SIG
DZ SIG
CC
CC
STP
STP
Wires removed from Stop Switch
Wire through Stop Switch
94V-0
E479892
JLC-1
PHII, DETS & PHIKEY SIG high when active
CC terms to Call Canc btn in/out

PHI Method 2

24vdc Feed Active High

HAT_OR_KS
Jumper on HAT side

PHI_IC
BULB

GND

PHI Method 3

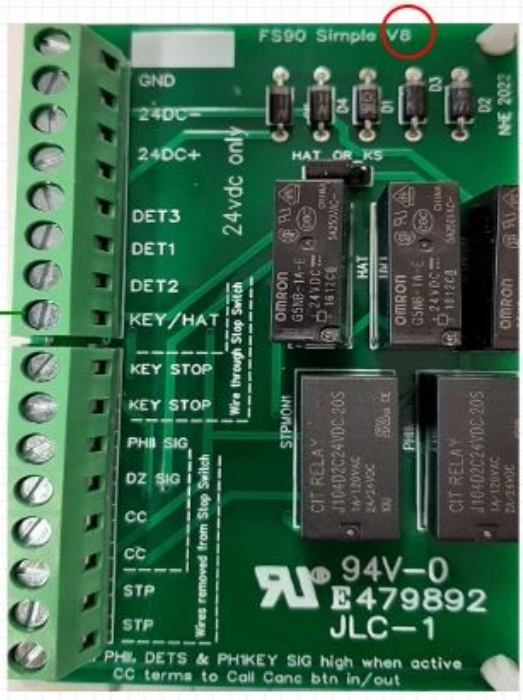
24vdc Feed

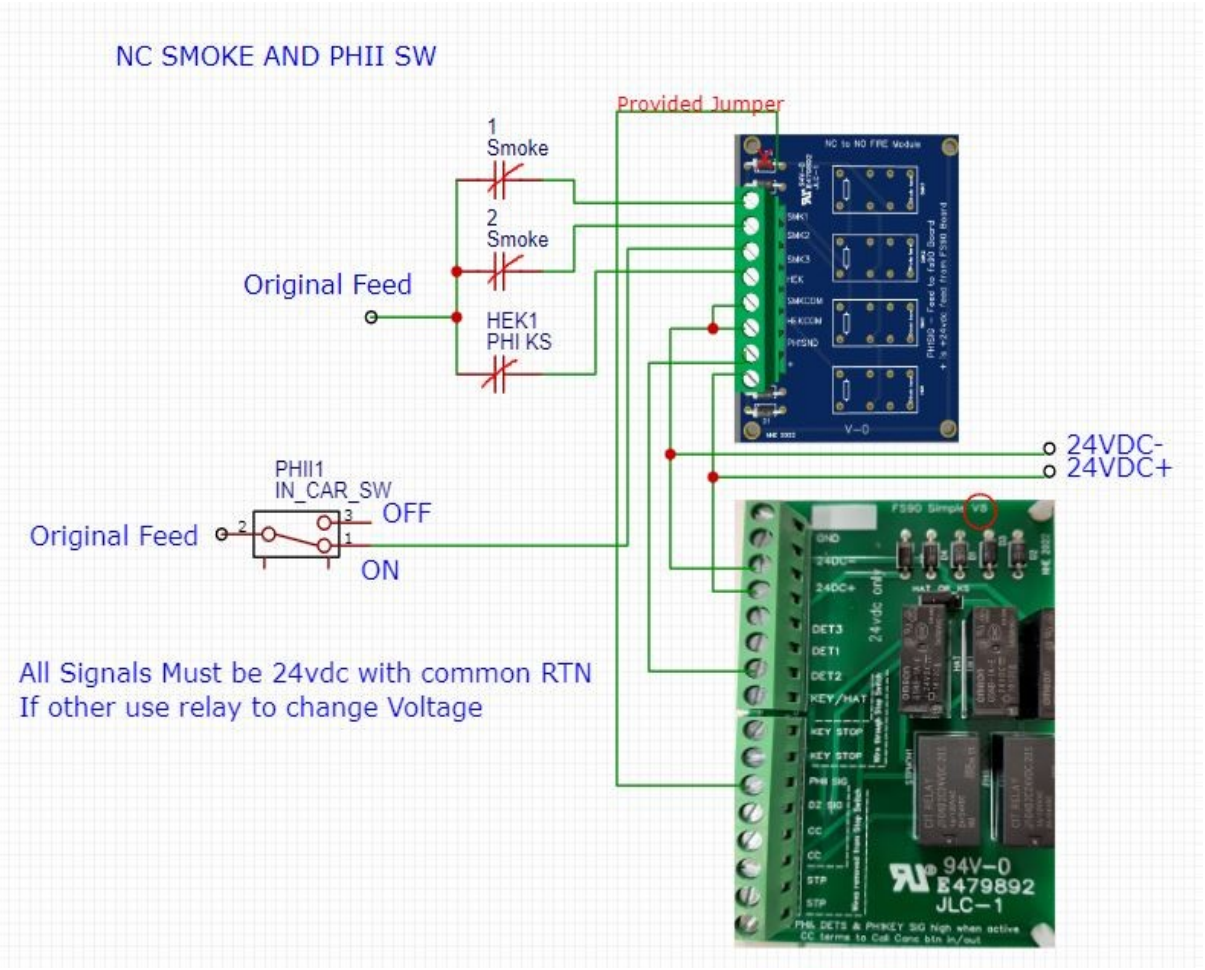
PHI_IC1
BULB

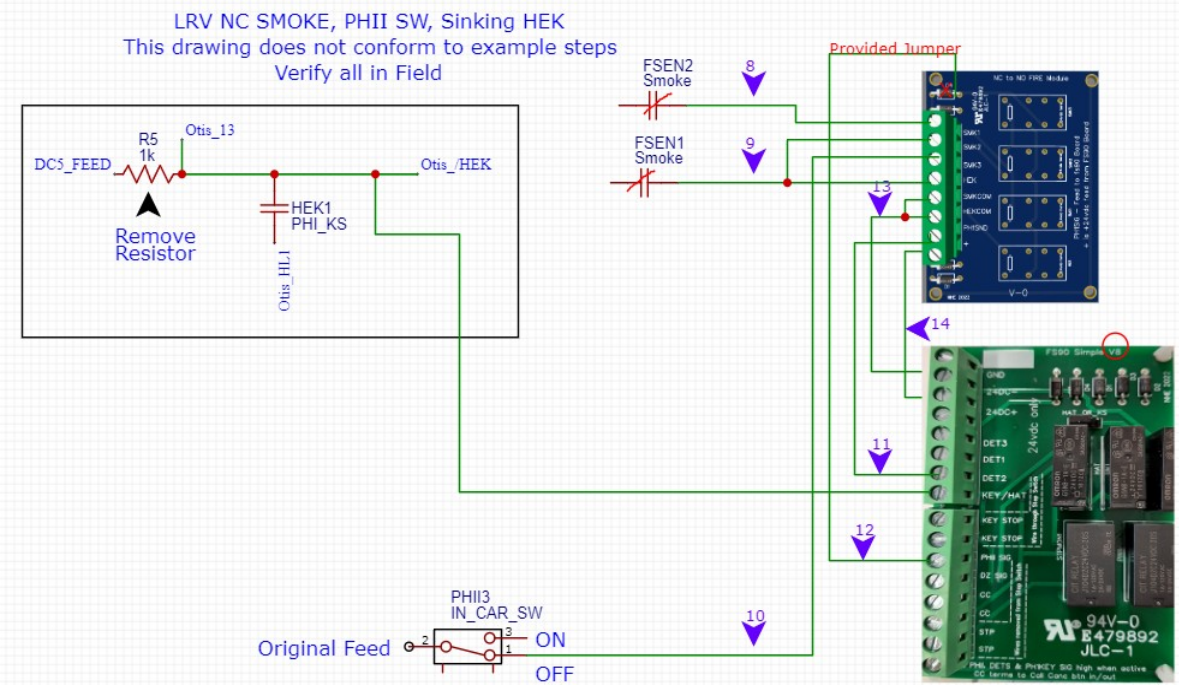
HAT_OR_KS
Jumper on KS side

CONTROLLER
Sinks

GND




NC SMOKE AND PHII SW
Provided Jumper
1
Smoke
2
Smoke
Original Feed
HEK1
PHI KS
24VDC-
24VDC+
PHII1
IN_CAR_SW
Original Feed
OFF
ON
All Signals Must be 24vdc with common RTN
If other use relay to change Voltage


LRV NC SMOKE, PHII SW, Sinking HEK
This drawing does not conform to example steps
Verify all in Field
DC5_FEED
R5
1k
Otis_13
Otis_/HEK
Remove
Resistor
HEK1
PHI_KS
Otis_HL1
Provided Jumper
FSEN2
Smoke
8
FSEN1
Smoke
9
13
14
11
12
10
PHII3
IN_CAR_SW
Original Feed
ON
OFF