

3.2 Advantage²⁴ Field Wiring Diagrams

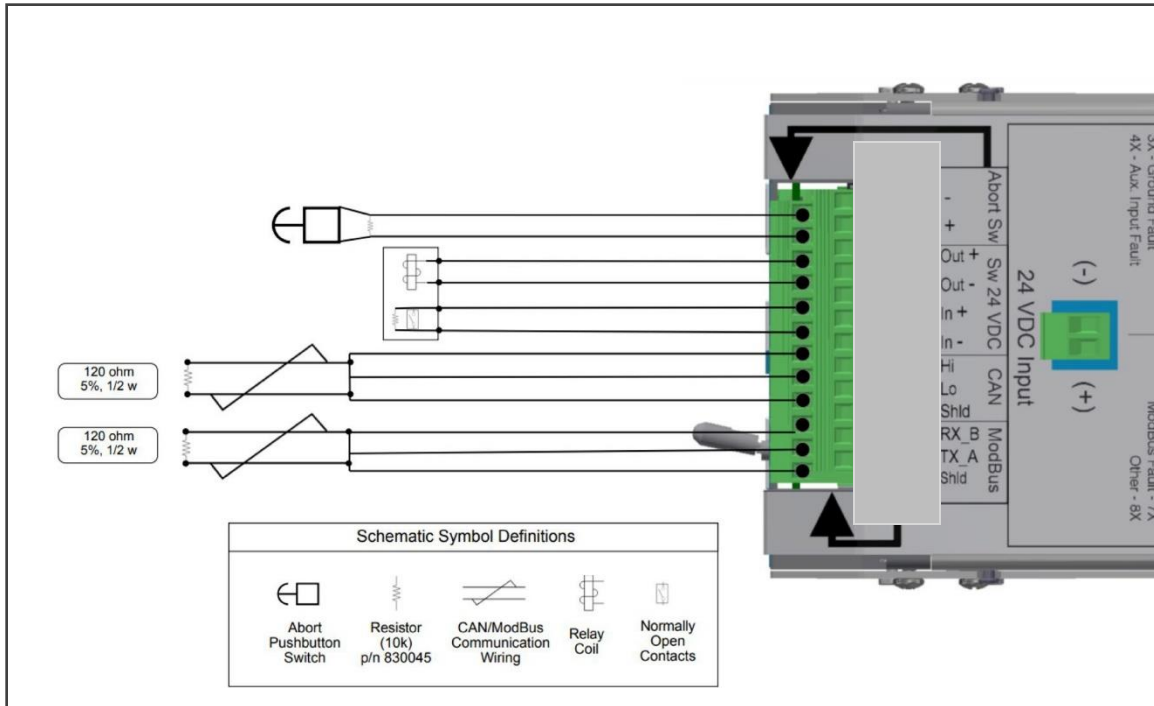


Figure 5 - Top Terminal Strip P1-A

Top Terminal Strip P1-A Field Wiring Notes		
Terminal #	Power Limited, Current Limited	Notes
1	External Modbus Shield Gnd	
2	External Modbus TX/RX A	N/A
3	External Modbus TX/RX B	"
4	Internal CAN Shield Gnd	
5	Internal CAN (CAN_Lo)	N/A
6	Internal CAN (CAN_Hi)	"
7	Switched 24 VDC Return (-)	24 VDC; Power Limited 250mA (14.4W)
8	Switched 24 VDC Return (+)	"
9	Switched 24 VDC Output (-)	"
10	Switched 24 VDC Output (+)	"
11	Abort Switch (+)	24 VDC; Use Listed Abort Station only; Normally Closed
12	Abort Switch (-)	"

Notes:

- 1) CAN and ModBus were not tested by UL. If applicable, route inside of conduit in same room as Adv²⁴ control panel.
- 2) Switched 24 circuit to be routed inside of the same room as the Adv²⁴ control panel.

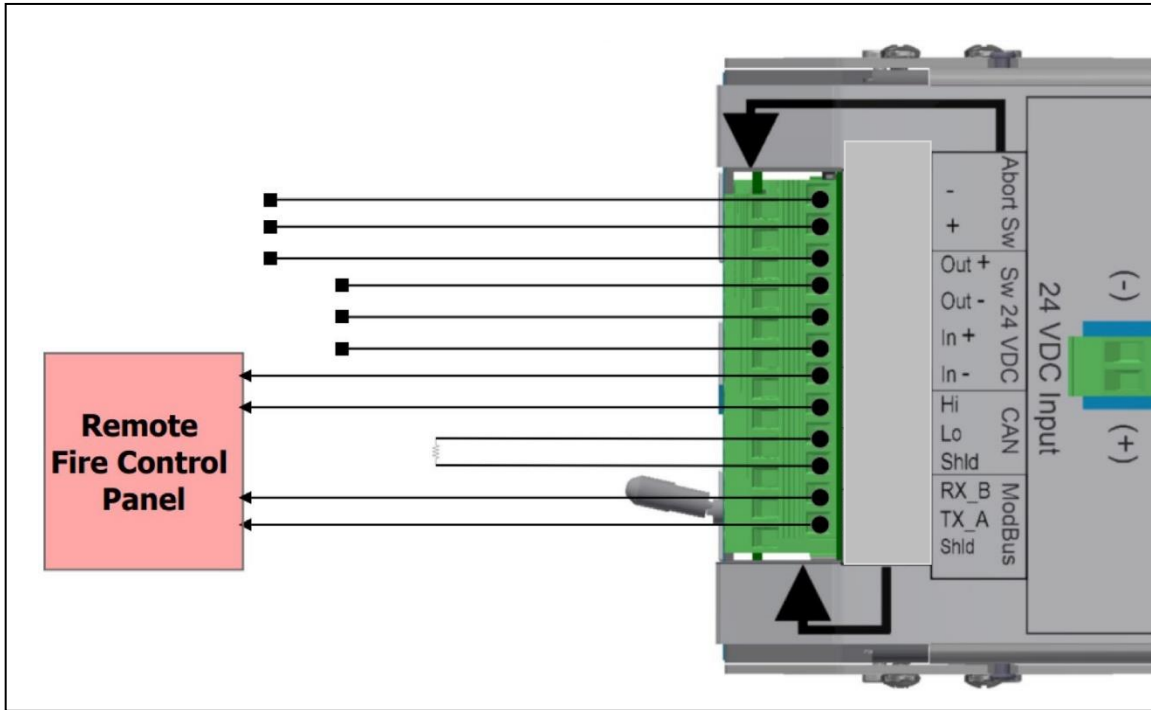


Figure 6 – Top Terminal Strip P1- B

Top Terminal Strip P1-A Field Wiring Notes		
Terminal #	Relay Function	Notes
1	Common FACP Fire Relay	Auxiliary FACP Connection
2	N.O. FACP Fire Relay	"
3	FACP EOL Resistor	FACP EOL Resistance determined by FACP reqmts
4	FACP EOL Resistor	'
5	Common FACP Trouble Relay	"
6	N.C. FACP Trouble Relay	'
7	Aux. Relay 1 – N.C	½ amp max @ 30 VAC/ 30 VDC, power factor 1
8	Aux. Relay 1 – Common	"
9	Aux. Relay 1 – N.O.	1 amp max @ 30 VAC/ 30 VDC, power factor 1
10	Aux. Relay 2 – NC	½ amp max @ 30 VAC/ 30 VDC, power factor 1
11	Aux. Relay 2 – Common	"
12	Aux. Relay 2 – N.O.	1 amp max @ 30 VAC/ 30 VDC, power factor 1

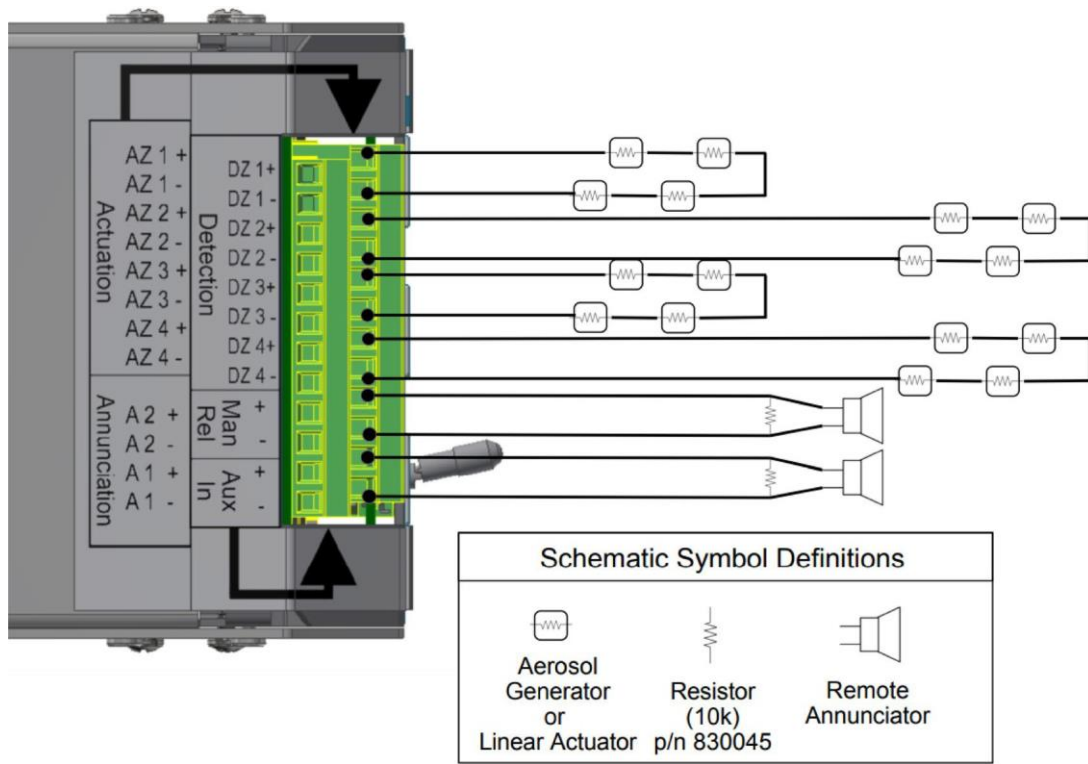


Figure 7 – Bottom Terminal Strip P2-A

Bottom Terminal Strip P2-A Field Wiring Notes		
P2-A	Supervisory Outputs, Power Limited	Circuit Notes
1	Actuation Zone 1 (+)	24 VDC; Power Limited; max 6-10 generators per zone total # of generators depends on wiring length
2	Actuation Zone 1 (-)	"
3	Actuation Zone 2 (+)	"
4	Actuation Zone 2 (-)	"
5	Actuation Zone 3 (+)	"
6	Actuation Zone 3 (-)	"
7	Actuation Zone 4 (+)	"
8	Actuation Zone 4 (-)	"
9	Remote Annunciation #2 24VDC (+)	24 VDC; Maximum 550mA; 10k, 5% EOL Resistor
10	Remote Annunciation #2 24 VDC (-)	"
11	Remote Annunciation #1 24VDC (+)	24 VDC; Maximum 550mA; 10k 5% EOL Resistor
12	Remote Annunciation #1 24 VDC (-)	"

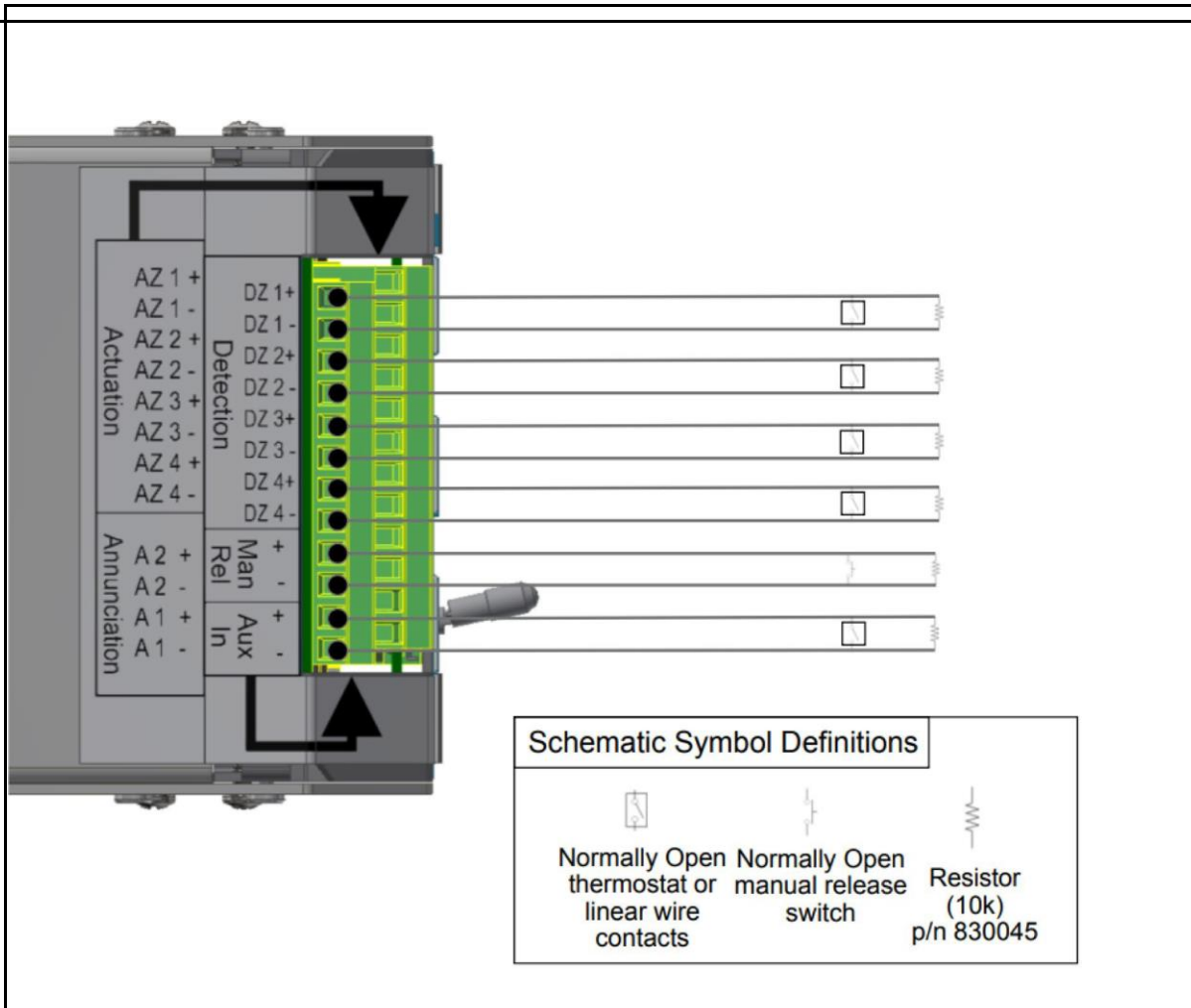


Figure 8 - Bottom Terminal Strip P2-B

Bottom Terminal Strip P2-B Field Wiring Notes		
P2-B	Supervisory Inputs	Circuit Notes
1	Detection Zone 1 (+)	Listed Heat Detector or Listed Linear wire with 10k, 5%, ¼ W min. EOL Resistor
2	Detection Zone 1 (-)	"
3	Detection Zone 2 (+)	Listed Heat Detector or Listed Linear wire with 10k, 5%, ¼ W min. EOL Resistor
4	Detection Zone 2 (-)	"
5	Detection Zone 3 (+)	Listed Heat Detector or Listed Linear wire with 10k, 5%, ¼ W min. EOL Resistor
6	Detection Zone 3 (-)	"
7	Detection Zone 4 (+)	Listed Heat Detector or Listed Linear wire with 10k, 5%, ¼ W min. EOL Resistor
8	Detection Zone 4 (-)	"
9	Manual Release (+)	Listed Manual Release Station with 10k EOL Resistor
10	Manual Release (-)	"
11	Auxiliary Input (+)	10k EOL Resistor
12	Auxiliary Input (-)	"