

WESTLAKE ACE HARDWARE

3511 SW MARKET
LEE'S SUMMIT, MO 64082

Fire Alarm System

DRAWING INDEX:

| Sheet: | Title: | Revision #: | Date Issued: |
|--------|---------------------------------------|-------------|--------------|
| FA-1 | COVER SHEET, I/O MATRIX, CALCULATIONS | 1 | 04.04.23 |
| FA-2 | FIRE ALARM FLOOR PLAN, RISER DIAGRAM | 1 | 04.04.23 |
| FA-3 | DEVICE MOUNTING & WIRING DETAILS | | 03.23.23 |
| FA-4 | PANEL WIRING & MOUNTING DETAILS | | 03.23.23 |

| | | | | | | | |
|--|---------------|---|--------------|------------------------------|--|---------------------|-----------------|
| POTTER <small>THE SYMBOL OF PROTECTION</small> | | | | Westlake Ace Hardware | | 3/23/2023 | |
| NAC Circuit Configuration & Voltage Drop | | | | | | | |
| NAC 1 | | MAX Circuit Current (amps): 3 | | | Source Voltage Used (VDC): 20.4 | | |
| Usage: Notification | | Description: Back Area | | | | | |
| Wire Type | | Ohms/1000ft | Length 1-Way | Actual Ohms | Max Load (amps) | Volts @ EOL | Min Volts Req'd |
| #14 Solid | | 3.07 | 200 | 1.228 | 0.437 | 19.86 | 16 |
| Circuit Devices | | | | Standby (amps) | Alarm (amps) | | |
| Qty | Lookup Type | Description | Each | Total | Each | Total | |
| 1 | Strobes | Sys Sens SCRLSCWL 75cd | 0.000000 | 0.000000 | 0.111000 | 0.111000 | |
| 1 | Horn Strobes | Sys Sens PC2RLtemp high, 75cd | 0.000000 | 0.000000 | 0.143000 | 0.143000 | |
| 3 | Strobes | Sys Sens SRLSW 15cd | 0.000000 | 0.000000 | 0.049000 | 0.129000 | |
| 1 | Horn Strobes | Sys Sens P2RLtemp high, 15cd | 0.000000 | 0.000000 | 0.054000 | 0.054000 | |
| | | | | Total Standby: | 0.000000 | Total Alarm: | 0.417000 |
| NAC 2 | | MAX Circuit Current (amps): 3 | | | Source Voltage Used (VDC): 20.4 | | |
| Usage: Notification | | Description: Front/Sales Area | | | | | |
| Wire Type | | Ohms/1000ft | Length 1-Way | Actual Ohms | Max Load (amps) | Volts @ EOL | Min Volts Req'd |
| #14 Solid | | 3.07 | 410 | 2.517 | 1.070 | 17.71 | 16 |
| Circuit Devices | | | | Standby (amps) | Alarm (amps) | | |
| Qty | Lookup Type | Description | Each | Total | Each | Total | |
| 2 | Horn Strobes | Sys Sens PC2RLtemp high, 15cd | 0.000000 | 0.000000 | 0.217000 | 0.434000 | |
| 2 | Strobes | Sys Sens SCRLSCWL 15cd | 0.000000 | 0.000000 | 0.189000 | 0.378000 | |
| 2 | Strobes | Sys Sens SCRLSCWL 15cd | 0.000000 | 0.000000 | 0.041000 | 0.082000 | |
| 1 | Horn Strobes | Sys Sens P2RLtemp high, 75cd | 0.000000 | 0.000000 | 0.176000 | 0.176000 | |
| | | | | Total Standby: | 0.000000 | Total Alarm: | 1.070000 |
| I/O Circuit Configuration & Voltage Drop | | | | | | | |
| | | Westlake Ace Hardware | | | 3/23/2023 | | |
| I/O 1 | | MAX Circuit Current (amps): 1 | | | Source Voltage Used (VDC): 20.4 | | |
| Usage: Aux Power | | Description: Duct Det & FDC strobe | | | | | |
| Wire Type | | Ohms/1000ft | Length 1-Way | Actual Ohms | Max Load (amps) | Volts @ EOL | Min Volts Req'd |
| #14 Solid | | 3.07 | 250 | 1.535 | 0.484 | 19.66 | 16 |
| Circuit Devices | | | | Standby (amps) | Alarm (amps) | | |
| Qty | Lookup Type | Description | Each | Total | Each | Total | |
| 1 | Horn Strobes | Sys Sens P2RLnon-temp high, 75cd | 0.000000 | 0.000000 | 0.176000 | 0.176000 | |
| 1 | SLC Aux Power | Potter PAD100-NAC Output Module | 0.030000 | 0.030000 | 0.008000 | 0.008000 | |
| 5 | SLC Aux Power | Potter PAD100-DUCTR Duct Det w/ Relay | 0.030000 | 0.150000 | 0.060000 | 0.300000 | |
| | | | | Total Standby: | 0.150000 | Total Alarm: | 0.464000 |
| I/O 2 | | MAX Circuit Current (amps): 1 | | | Source Voltage Used (VDC): 20.4 | | |
| Usage: Aux Power | | Description: DACT | | | | | |
| Wire Type | | Ohms/1000ft | Length 1-Way | Actual Ohms | Max Load (amps) | Volts @ EOL | Min Volts Req'd |
| #14 Solid | | 3.07 | 10 | 0.061 | 0.082 | 20.39 | 16 |
| Circuit Devices | | | | Standby (amps) | Alarm (amps) | | |
| Qty | Lookup Type | Description | Each | Total | Each | Total | |
| 1 | DualComNF-IV | Universal DACT - I/P or Cellular | 0.030000 | 0.030000 | 0.082000 | 0.082000 | |
| | | | | Total Standby: | 0.030000 | Total Alarm: | 0.082000 |

| <div><div>POTTER</div><div>The Symbol of Protection</div></div> | | <div>Project Name: Westlake Ace Hardware</div> <div>3511 SW Market, Lee's Summit, MO</div> | | <div>Standby Hours: 24</div> <div>Alarm Mins: 5</div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <div>IPSA-100</div> <div>Battery & Voltage Drop</div> <div>Calculations</div> | | <div>Installed By: Midwest Alarm Services</div> <div>Designed By: D.Lane</div> <div>Date: 3/23/2023</div> | | <div>Efficiency Factor: 20%</div> <div>SLC Type: Class B</div> <div>NAC Source Voltage: 20.4</div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div>Model #: IPSA-100</div> <div>Panel ID: FACP</div> <div>Location: Back Room 105</div> | | <div>Max Panel Current (amps): 5</div> <div>User assumes all responsibility to ensure the quantities and current draw values in this worksheet are accurate prior to submit.</div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table><tr><th>Qty</th><th>Addressable Fire Panel Part #</th><th>Description</th><th>Standby (amps) Each</th><th>Total</th><th>Alarm (amps) Each</th><th>Total</th></tr><tr><td>1</td><td>IPSA-100</td><td>Analog Addressable FACP</td><td>0.130</td><td>0.130</td><td>0.220</td><td>0.220</td></tr><tr><td colspan="3"></td><td>Panel Standby:</td><td>0.130</td><td>Panel Alarm:</td><td>0.220</td></tr></table> | | | | | | Qty | Addressable Fire Panel Part # | Description | Standby (amps) Each | Total | Alarm (amps) Each | Total | 1 | IPSA-100 | Analog Addressable FACP | 0.130 | 0.130 | 0.220 | 0.220 | | | | Panel Standby: | 0.130 | Panel Alarm: | 0.220 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Qty | Addressable Fire Panel Part # | Description | Standby (amps) Each | Total | Alarm (amps) Each | Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | IPSA-100 | Analog Addressable FACP | 0.130 | 0.130 | 0.220 | 0.220 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Panel Standby: | 0.130 | Panel Alarm: | 0.220 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table><tr><th colspan="3">P-LINK (RS-485)</th><th>Standby</th><th>Alarm</th></tr><tr><td>1</td><td>UD-2000 / UD-1000</td><td>DACT Card</td><td>0.016</td><td>0.016</td><td>0.023</td><td>0.023</td></tr><tr><td></td><td>RA-6075R</td><td>LED Annunciator</td><td>0.020</td><td></td><td>0.025</td><td></td></tr><tr><td></td><td>RA-6500R(F)</td><td>Flush Mount LCD Annunciator</td><td>0.020</td><td>0.020</td><td></td><td>0.050</td></tr><tr><td>1</td><td>LED-16(F)</td><td>Flush Mount LED Annunciator</td><td>0.025</td><td></td><td>0.025</td><td></td></tr><tr><td></td><td>LED-16</td><td>LED Annunciator LED Power*</td><td>0.015</td><td></td><td>0.210</td><td></td></tr><tr><td></td><td>CA-6075</td><td>Class A Module</td><td>0.012</td><td></td><td>0.044</td><td></td></tr><tr><td></td><td>PSM-1000(E)</td><td>Power Expander</td><td>0.015</td><td></td><td>0.015</td><td></td></tr><tr><td></td><td>PSM-1000-SLCE-127</td><td>SLC Expander</td><td>0.060</td><td></td><td>0.060</td><td></td></tr><tr><td></td><td>UD-C</td><td>Initiating Zone Expander</td><td>0.020</td><td></td><td>0.020</td><td></td></tr><tr><td></td><td>UD-C</td><td>Initiating Zone Expander Power*</td><td>0.030</td><td></td><td>0.270</td><td></td></tr><tr><td></td><td>RLV-5</td><td>Relay Expander</td><td>0.025</td><td></td><td>0.035</td><td></td></tr><tr><td></td><td>RLV-5</td><td>Relay Expander Power*</td><td>0.010</td><td>0.135</td><td></td><td></td></tr><tr><td colspan="3">(Maximum current draw on P-Link limited to 1 Amp)</td><td>P-LINK Standby:</td><td>0.036</td><td>P-LINK Alarm:</td><td>0.073</td></tr></table> | | | | | | P-LINK (RS-485) | | | Standby | Alarm | 1 | UD-2000 / UD-1000 | DACT Card | 0.016 | 0.016 | 0.023 | 0.023 | | RA-6075R | LED Annunciator | 0.020 | | 0.025 | | | RA-6500R(F) | Flush Mount LCD Annunciator | 0.020 | 0.020 | | 0.050 | 1 | LED-16(F) | Flush Mount LED Annunciator | 0.025 | | 0.025 | | | LED-16 | LED Annunciator LED Power* | 0.015 | | 0.210 | | | CA-6075 | Class A Module | 0.012 | | 0.044 | | | PSM-1000(E) | Power Expander | 0.015 | | 0.015 | | | PSM-1000-SLCE-127 | SLC Expander | 0.060 | | 0.060 | | | UD-C | Initiating Zone Expander | 0.020 | | 0.020 | | | UD-C | Initiating Zone Expander Power* | 0.030 | | 0.270 | | | RLV-5 | Relay Expander | 0.025 | | 0.035 | | | RLV-5 | Relay Expander Power* | 0.010 | 0.135 | | | (Maximum current draw on P-Link limited to 1 Amp) | | | P-LINK Standby: | 0.036 | P-LINK Alarm: | 0.073 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P-LINK (RS-485) | | | Standby | Alarm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | UD-2000 / UD-1000 | DACT Card | 0.016 | 0.016 | 0.023 | 0.023 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | RA-6075R | LED Annunciator | 0.020 | | 0.025 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | RA-6500R(F) | Flush Mount LCD Annunciator | 0.020 | 0.020 | | 0.050 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | LED-16(F) | Flush Mount LED Annunciator | 0.025 | | 0.025 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | LED-16 | LED Annunciator LED Power* | 0.015 | | 0.210 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | CA-6075 | Class A Module | 0.012 | | 0.044 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PSM-1000(E) | Power Expander | 0.015 | | 0.015 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PSM-1000-SLCE-127 | SLC Expander | 0.060 | | 0.060 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | UD-C | Initiating Zone Expander | 0.020 | | 0.020 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | UD-C | Initiating Zone Expander Power* | 0.030 | | 0.270 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | RLV-5 | Relay Expander | 0.025 | | 0.035 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | RLV-5 | Relay Expander Power* | 0.010 | 0.135 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Maximum current draw on P-Link limited to 1 Amp) | | | P-LINK Standby: | 0.036 | P-LINK Alarm: | 0.073 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div>*Only enter quantity if PLINK power is being used to power devices</div> <table><tr><th colspan="3">SLC Devices</th><th>Standby</th><th>Alarm</th></tr><tr><td>AFC / ARC / WA Series</td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td>PAD-PD</td><td>Analog Photo Smoke</td><td>0.000300</td><td>0.000300</td><td>0.000300</td></tr><tr><td></td><td>PAD-PHD</td><td>Analog Photo Smoke/Heat</td><td>0.000300</td><td>0.000300</td><td>0.000300</td></tr><tr><td></td><td>PAD-HD</td><td>Analog Fixed Temp Heat</td><td>0.000300</td><td>0.000300</td><td>0.000300</td></tr><tr><td></td><td>PAD-CD</td><td>Analog Carbon Monoxide Detector</td><td>0.000300</td><td>0.000300</td><td>0.000300</td></tr><tr><td></td><td>PAD-PCD</td><td>Analog Smoke/Carbon Monoxide Detector</td><td>0.000300</td><td>0.000300</td><td>0.000300</td></tr><tr><td></td><td>PAD-PHCD</td><td>Analog Smoke/Heat/Carbon Detector</td><td>0.000300</td><td>0.000300</td><td>0.000300</td></tr><tr><td></td><td>PAD-DUCT</td><td>Addressable Duct Detector</td><td>0.000300</td><td>0.000300</td><td>0.000300</td></tr><tr><td>5</td><td>PAD-DUCTR*</td><td>Add. Duct Detector w/Relay</td><td>0.000500</td><td>0.002500</td><td>0.002500</td></tr><tr><td>5</td><td>PAD100-DRTS</td><td>Duct Remote Test Switch</td><td>0.010000</td><td>0.050000</td><td>0.075000</td></tr><tr><td>4</td><td>PAD100-PSA/PSDA</td><td>Add. Pull Station Single/Dual Action</td><td>0.000200</td><td>0.000800</td><td>0.000800</td></tr><tr><td></td><td>PAD100-MIM</td><td>Micro Input Module</td><td>0.000200</td><td></td><td>0.000200</td></tr><tr><td></td><td>PAD100-SIM</td><td>Single Input Module</td><td>0.000240</td><td></td><td>0.000240</td></tr><tr><td>1</td><td>PAD100-DIM</td><td>Dual Input Module</td><td>0.000240</td><td>0.000240</td><td>0.000240</td></tr><tr><td></td><td>PAD100-RM</td><td>Relay Module</td><td>0.000240</td><td></td><td>0.000240</td></tr><tr><td></td><td>PAD100-OROI</td><td>One Relay One Input Module</td><td>0.000240</td><td></td><td>0.000240</td></tr><tr><td></td><td>PAD100-TRTI</td><td>Two Relay Two Input Module</td><td>0.000240</td><td></td><td>0.000240</td></tr><tr><td></td><td>PAD100-ZM*</td><td>Conventional Zone Module</td><td>0.000240</td><td></td><td>0.000240</td></tr><tr><td>1</td><td>PAD100-NAC*</td><td>Notification Appliance Circuit</td><td>0.000200</td><td>0.000200</td><td>0.000200</td></tr><tr><td></td><td>PAD100-SM</td><td>Speaker Module</td><td>0.000200</td><td></td><td>0.000200</td></tr><tr><td></td><td>PAD100-IM</td><td>Isolator Module</td><td>0.000150</td><td></td><td>0.000150</td></tr><tr><td></td><td>PAD100-LED</td><td>LED Module</td><td>0.000240</td><td></td><td>0.000240</td></tr><tr><td></td><td>PAD100-LEDK</td><td>Addressable LED w/ Key Switch</td><td>0.000200</td><td></td><td>0.000200</td></tr><tr><td></td><td>PAD100-SB*</td><td>Addressable Sounder Base</td><td>0.000200</td><td></td><td>0.000200</td></tr><tr><td></td><td>PAD100-RB</td><td>Addressable Relay Base</td><td>0.000200</td><td></td><td>0.000200</td></tr><tr><td></td><td>PAD100-IB</td><td>Addressable Isolator Base</td><td>0.000150</td><td></td><td>0.000150</td></tr><tr><td colspan="3"></td><td>SLC Loop Alarm LED Current</td><td>0.000000</td><td>0.036000</td></tr><tr><td colspan="3">* Requires Aux Power (Configure Below)</td><td>SLC Standby:</td><td>0.054040</td><td>SLC Alarm:</td><td>0.115040</td></tr></table> | | | | | | SLC Devices | | | Standby | Alarm | AFC / ARC / WA Series | | | | | 1 | PAD-PD | Analog Photo Smoke | 0.000300 | 0.000300 | 0.000300 | | PAD-PHD | Analog Photo Smoke/Heat | 0.000300 | 0.000300 | 0.000300 | | PAD-HD | Analog Fixed Temp Heat | 0.000300 | 0.000300 | 0.000300 | | PAD-CD | Analog Carbon Monoxide Detector | 0.000300 | 0.000300 | 0.000300 | | PAD-PCD | Analog Smoke/Carbon Monoxide Detector | 0.000300 | 0.000300 | 0.000300 | | PAD-PHCD | Analog Smoke/Heat/Carbon Detector | 0.000300 | 0.000300 | 0.000300 | | PAD-DUCT | Addressable Duct Detector | 0.000300 | 0.000300 | 0.000300 | 5 | PAD-DUCTR* | Add. Duct Detector w/Relay | 0.000500 | 0.002500 | 0.002500 | 5 | PAD100-DRTS | Duct Remote Test Switch | 0.010000 | 0.050000 | 0.075000 | 4 | PAD100-PSA/PSDA | Add. Pull Station Single/Dual Action | 0.000200 | 0.000800 | 0.000800 | | PAD100-MIM | Micro Input Module | 0.000200 | | 0.000200 | | PAD100-SIM | Single Input Module | 0.000240 | | 0.000240 | 1 | PAD100-DIM | Dual Input Module | 0.000240 | 0.000240 | 0.000240 | | PAD100-RM | Relay Module | 0.000240 | | 0.000240 | | PAD100-OROI | One Relay One Input Module | 0.000240 | | 0.000240 | | PAD100-TRTI | Two Relay Two Input Module | 0.000240 | | 0.000240 | | PAD100-ZM* | Conventional Zone Module | 0.000240 | | 0.000240 | 1 | PAD100-NAC* | Notification Appliance Circuit | 0.000200 | 0.000200 | 0.000200 | | PAD100-SM | Speaker Module | 0.000200 | | 0.000200 | | PAD100-IM | Isolator Module | 0.000150 | | 0.000150 | | PAD100-LED | LED Module | 0.000240 | | 0.000240 | | PAD100-LEDK | Addressable LED w/ Key Switch | 0.000200 | | 0.000200 | | PAD100-SB* | Addressable Sounder Base | 0.000200 | | 0.000200 | | PAD100-RB | Addressable Relay Base | 0.000200 | | 0.000200 | | PAD100-IB | Addressable Isolator Base | 0.000150 | | 0.000150 | | | | SLC Loop Alarm LED Current | 0.000000 | 0.036000 | * Requires Aux Power (Configure Below) | | | SLC Standby: | 0.054040 | SLC Alarm: | 0.115040 |
| SLC Devices | | | Standby | Alarm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AFC / ARC / WA Series | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | PAD-PD | Analog Photo Smoke | 0.000300 | 0.000300 | 0.000300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PAD-PHD | Analog Photo Smoke/Heat | 0.000300 | 0.000300 | 0.000300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PAD-HD | Analog Fixed Temp Heat | 0.000300 | 0.000300 | 0.000300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PAD-CD | Analog Carbon Monoxide Detector | 0.000300 | 0.000300 | 0.000300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PAD-PCD | Analog Smoke/Carbon Monoxide Detector | 0.000300 | 0.000300 | 0.000300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PAD-PHCD | Analog Smoke/Heat/Carbon Detector | 0.000300 | 0.000300 | 0.000300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PAD-DUCT | Addressable Duct Detector | 0.000300 | 0.000300 | 0.000300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | PAD-DUCTR* | Add. Duct Detector w/Relay | 0.000500 | 0.002500 | 0.002500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | PAD100-DRTS | Duct Remote Test Switch | 0.010000 | 0.050000 | 0.075000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | PAD100-PSA/PSDA | Add. Pull Station Single/Dual Action | 0.000200 | 0.000800 | 0.000800 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PAD100-MIM | Micro Input Module | 0.000200 | | 0.000200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PAD100-SIM | Single Input Module | 0.000240 | | 0.000240 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | PAD100-DIM | Dual Input Module | 0.000240 | 0.000240 | 0.000240 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PAD100-RM | Relay Module | 0.000240 | | 0.000240 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PAD100-OROI | One Relay One Input Module | 0.000240 | | 0.000240 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PAD100-TRTI | Two Relay Two Input Module | 0.000240 | | 0.000240 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PAD100-ZM* | Conventional Zone Module | 0.000240 | | 0.000240 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | PAD100-NAC* | Notification Appliance Circuit | 0.000200 | 0.000200 | 0.000200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PAD100-SM | Speaker Module | 0.000200 | | 0.000200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PAD100-IM | Isolator Module | 0.000150 | | 0.000150 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PAD100-LED | LED Module | 0.000240 | | 0.000240 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PAD100-LEDK | Addressable LED w/ Key Switch | 0.000200 | | 0.000200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PAD100-SB* | Addressable Sounder Base | 0.000200 | | 0.000200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PAD100-RB | Addressable Relay Base | 0.000200 | | 0.000200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PAD100-IB | Addressable Isolator Base | 0.000150 | | 0.000150 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | SLC Loop Alarm LED Current | 0.000000 | 0.036000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| * Requires Aux Power (Configure Below) | | | SLC Standby: | 0.054040 | SLC Alarm: | 0.115040 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table><tr><th colspan="3">NAC Circuits (See NAC Configuration below)</th><th>Standby (amps) Total</th><th>Alarm (amps) Total</th></tr><tr><td>1</td><td>Notification</td><td>Back Area</td><td>0.000000</td><td>0.437000</td></tr><tr><td>2</td><td>Notification</td><td>Front/Sales Area</td><td>0.000000</td><td>1.029000</td></tr><tr><td colspan="3"></td><td>NAC Standby:</td><td>0.000000</td><td>NAC Alarm:</td><td>1.466000</td></tr></table> | | | | | | NAC Circuits (See NAC Configuration below) | | | Standby (amps) Total | Alarm (amps) Total | 1 | Notification | Back Area | 0.000000 | 0.437000 | 2 | Notification | Front/Sales Area | 0.000000 | 1.029000 | | | | NAC Standby: | 0.000000 | NAC Alarm: | 1.466000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NAC Circuits (See NAC Configuration below) | | | Standby (amps) Total | Alarm (amps) Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Notification | Back Area | 0.000000 | 0.437000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Notification | Front/Sales Area | 0.000000 | 1.029000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | NAC Standby: | 0.000000 | NAC Alarm: | 1.466000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table><tr><th colspan="3">I/O Circuits (See I/O Configuration below)</th><th>Standby (amps) Total</th><th>Alarm (amps) Total</th></tr><tr><td>1</td><td>Aux Power</td><td>Duct Det & FDC strobe</td><td>0.133000</td><td>0.484000</td></tr><tr><td>2</td><td>Aux Power</td><td>DACT</td><td>0.030000</td><td>0.082000</td></tr><tr><td colspan="3"></td><td>I/O Standby:</td><td>0.183000</td><td>I/O Alarm:</td><td>0.566000</td></tr></table> | | | | | | I/O Circuits (See I/O Configuration below) | | | Standby (amps) Total | Alarm (amps) Total | 1 | Aux Power | Duct Det & FDC strobe | 0.133000 | 0.484000 | 2 | Aux Power | DACT | 0.030000 | 0.082000 | | | | I/O Standby: | 0.183000 | I/O Alarm: | 0.566000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I/O Circuits (See I/O Configuration below) | | | Standby (amps) Total | Alarm (amps) Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Aux Power | Duct Det & FDC strobe | 0.133000 | 0.484000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Aux Power | DACT | 0.030000 | 0.082000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | I/O Standby: | 0.183000 | I/O Alarm: | 0.566000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table><tr><th colspan="3">Battery Calculation Summary</th><th>Standby (amps)</th><th>Alarm (amps)</th></tr><tr><td colspan="3">Panel Current:</td><td>0.130000</td><td>0.220000</td></tr><tr><td colspan="3">P-Link Current:</td><td>0.036000</td><td>0.073000</td></tr><tr><td colspan="3">SLC Device Current:</td><td>0.054040</td><td>0.115040</td></tr><tr><td colspan="3">NAC Circuit Current:</td><td>0.000000</td><td>1.466000</td></tr><tr><td colspan="3">I/O Circuit Current:</td><td>0.183000</td><td>0.566000</td></tr><tr><td colspan="3">Total Standby:</td><td>0.407040</td><td>Total Alarm:</td><td>2.449040</td></tr><tr><td colspan="3">Device Addresses Used: 127</td><td>24</td><td>Alarm Mins:</td><td>5</td></tr><tr><td colspan="3">Device Addresses Available: 127</td><td>9.8</td><td>AH Required:</td><td>0.21</td></tr><tr><td colspan="3">Device Addresses Remaining: 115</td><td colspan="3"></td></tr><tr><td colspan="3">Total Combined Standby & Alarm Amp/Hours Required:</td><td colspan="3">9.83</td></tr><tr><td colspan="3">Efficiency Factor:</td><td colspan="3">20%</td></tr><tr><td colspan="3">Required Battery Amp/Hours:</td><td colspan="3">11.87</td></tr><tr><td colspan="3">Battery Amp/Hours Provided:</td><td colspan="3">12</td></tr></table> | | | | | | Battery Calculation Summary | | | Standby (amps) | Alarm (amps) | Panel Current: | | | 0.130000 | 0.220000 | P-Link Current: | | | 0.036000 | 0.073000 | SLC Device Current: | | | 0.054040 | 0.115040 | NAC Circuit Current: | | | 0.000000 | 1.466000 | I/O Circuit Current: | | | 0.183000 | 0.566000 | Total Standby: | | | 0.407040 | Total Alarm: | 2.449040 | Device Addresses Used: 127 | | | 24 | Alarm Mins: | 5 | Device Addresses Available: 127 | | | 9.8 | AH Required: | 0.21 | Device Addresses Remaining: 115 | | | | | | Total Combined Standby & Alarm Amp/Hours Required: | | | 9.83 | | | Efficiency Factor: | | | 20% | | | Required Battery Amp/Hours: | | | 11.87 | | | Battery Amp/Hours Provided: | | | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery Calculation Summary | | | Standby (amps) | Alarm (amps) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Panel Current: | | | 0.130000 | 0.220000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P-Link Current: | | | 0.036000 | 0.073000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SLC Device Current: | | | 0.054040 | 0.115040 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NAC Circuit Current: | | | 0.000000 | 1.466000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I/O Circuit Current: | | | 0.183000 | 0.566000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Standby: | | | 0.407040 | Total Alarm: | 2.449040 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Device Addresses Used: 127 | | | 24 | Alarm Mins: | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Device Addresses Available: 127 | | | 9.8 | AH Required: | 0.21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Device Addresses Remaining: 115 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total Combined Standby & Alarm Amp/Hours Required: | | | 9.83 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Efficiency Factor: | | | 20% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Required Battery Amp/Hours: | | | 11.87 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Battery Amp/Hours Provided: | | | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div>Note: The cabinet will house two 8 AH or 18 AH batteries. The charging circuit is rated for up to two 55 AH batteries.</div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| NOTIFICATION POWER SUMMARY - HORN/STROBE CIRCUITS | | | | | | | | | | |
|---|-----|----------|---------|----------|--------|-----------|---------------|--------|--------|--------|
| FACP/Circuit | Qty | Alm Load | Max. | % Loaded | Horn | wire type | Volts | Line g | Load g | Vdrop |
| Back Area | P1 | 6 | 0.437 A | 3.00 A | 14.57% | 198 FT | 14ga solid Cu | 20.4 | 1.20 | 48.68 |
| Front sales area | P2 | 7 | 1.070 A | 3.00 A | 35.67% | 410 FT | 14ga solid Cu | 20.4 | 2.52 | 19.07 |
| duct det aux power/FDC | VO1 | 6 | 0.484 A | 1.00 A | 48.40% | 250 FT | 14ga solid Cu | 20.4 | 1.54 | 42.15 |
| DACT | VO2 | 1 | 0.082 A | 1.00 A | 8.20% | 10 FT | 14ga solid Cu | 20.4 | 0.06 | 248.78 |
| TOTALS | | 20 | 2.073 A | 5.00 A | 41.46% | | | | | |

| FIRE ALARM GENERAL NOTES | |
|--------------------------|--|
| NOTE# | NOTE TEXT |
| 1. | ALL CIRCUIT POLARITY SHALL BE MAINTAINED. |
| 2. | SHIELD CONTINUITY SHALL BE MAINTAINED THROUGH OUT ALL SHIELDED CIRCUITS. SHIELDS SHALL BE GROUNDED AT ONLY ONE POINT (THE EQUIPMENT HEAD END UNLESS NOTED OTHERWISE). |
| 3. | ALL CIRCUITS SHALL BE FREE OF GROUNDS, WIRE TO WIRE SHORTS, AND OPENS. |
| 4. | NOTIFICATION APPLIANCE CIRCUITS (NAC) & INITIATING DEVICE CIRCUITS (IDC) ARE SUPERVISED. NO PARALLEL BRANCHING (TEE-TAPPING) SHALL BE PERMITTED. NON-STYLE 6 & 7 SIGNALING LINE CIRCUITS (SLC) ALLOW PARALLEL BRANCHING (TEE-TAPPING) AT DEVICES AND RISER BOXES ONLY. |
| 5. | ALL FIRE ALARM CONDUIT SHALL BE SIZED TO MEET OR EXCEED THE NEC MINIMUM REQUIREMENTS. ALL FIRE ALARM CONDUIT SIZE SHALL BE 3/4" MINIMUM UNLESS SHOWN OTHERWISE. STUB-UPS TO INDIVIDUAL DEVICES ALLOWED TO BE IN 1/2". |
| 6. | INSTALLATION MATERIALS (I.E. CONDUIT, FITTINGS, HANGERS, STANDARD BOXES, ETC.) ARE NOT PROVIDED BY MIDWEST ALARM SERVICES. |
| 7. | ON OPEN WIRE INSTALLATIONS CONDUIT SHALL BE PROVIDED BY OTHERS THROUGH ALL INACCESSIBLE AREAS (I.E. ABOVE HARD CEILINGS, STUB-UPS THROUGH ENCLOSED WALLS, ECT.) AND IN ALL EXPOSED AREAS (I.E. MECHANICAL ROOMS, ELECTRICAL ROOMS, ETC.). |
| 8. | MANUAL PULL BOXES SHALL BE MOUNTED 48" AFF TO THE ACTUATING HANDLE. |
| 9. | WALL-MOUNTED AUDIBLE/VISUAL & VISUAL ONLY DEVICES SHALL BE MOUNTED 80" AFF TO THE BOTTOM OF THE DEVICE OR 6" FROM THE CEILING TO THE TOP OF THE DEVICE WHICHEVER IS LOWER. |
| 10. | INSTALLATION SHALL BE IN STRICT CONFORMANCE WITH THE NATIONAL ELECTRIC CODE, NFPA CODES, LOCAL CODES, AUTHORITIES HAVING JURISDICTION AND ALL OF THE MANUFACTURERS REQUIREMENTS. |
| 11. | ALL FIRE ALARM CONTROL RELAYS SHALL BE MOUNTED WITHIN 3' OF THE DEVICES THEY CONTROL. ALL RELAY CONTROL CIRCUITS SHALL BE SUPERVISED. |
| 12. | ALL FIRE ALARM JUNCTION BOX COVERS SHALL BE PAINTED RED OR LABELED FOR DISTINCT IDENTIFICATION. |
| 13. | ALL FIRE ALARM PANELS & EQUIPMENT CABINETS REQUIRE A DEDICATED 120VAC CIRCUIT FOR PRIMARY POWER. FIRE ALARM AC POWER CIRCUITS SHALL BE PERMANENTLY IDENTIFIED AT THE DISTRIBUTION PANEL AND INSIDE THE FIRE EQUIPMENT CABINETS SERVED. |

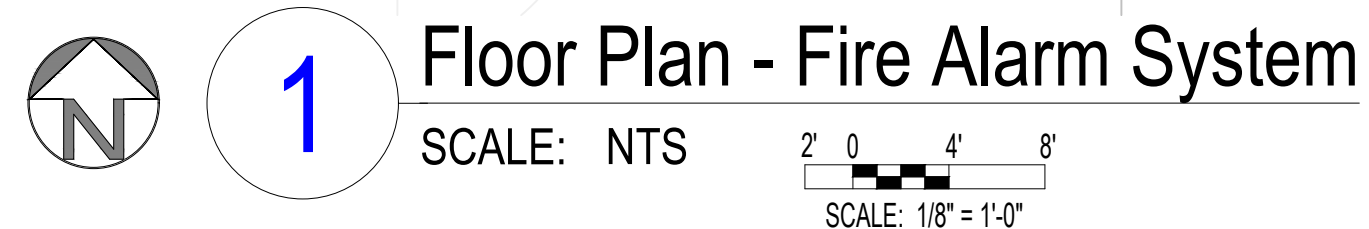
PROJECT NARRATIVE

This project is a new building, use group B. A new fire alarm system with horn/strobe notification and DACT is being installed in the building. The building is fully sprinklered. There is an unattached open lawn/garden product area that is not sprinklered.

AUTHORITY HAVING JURISDICTION

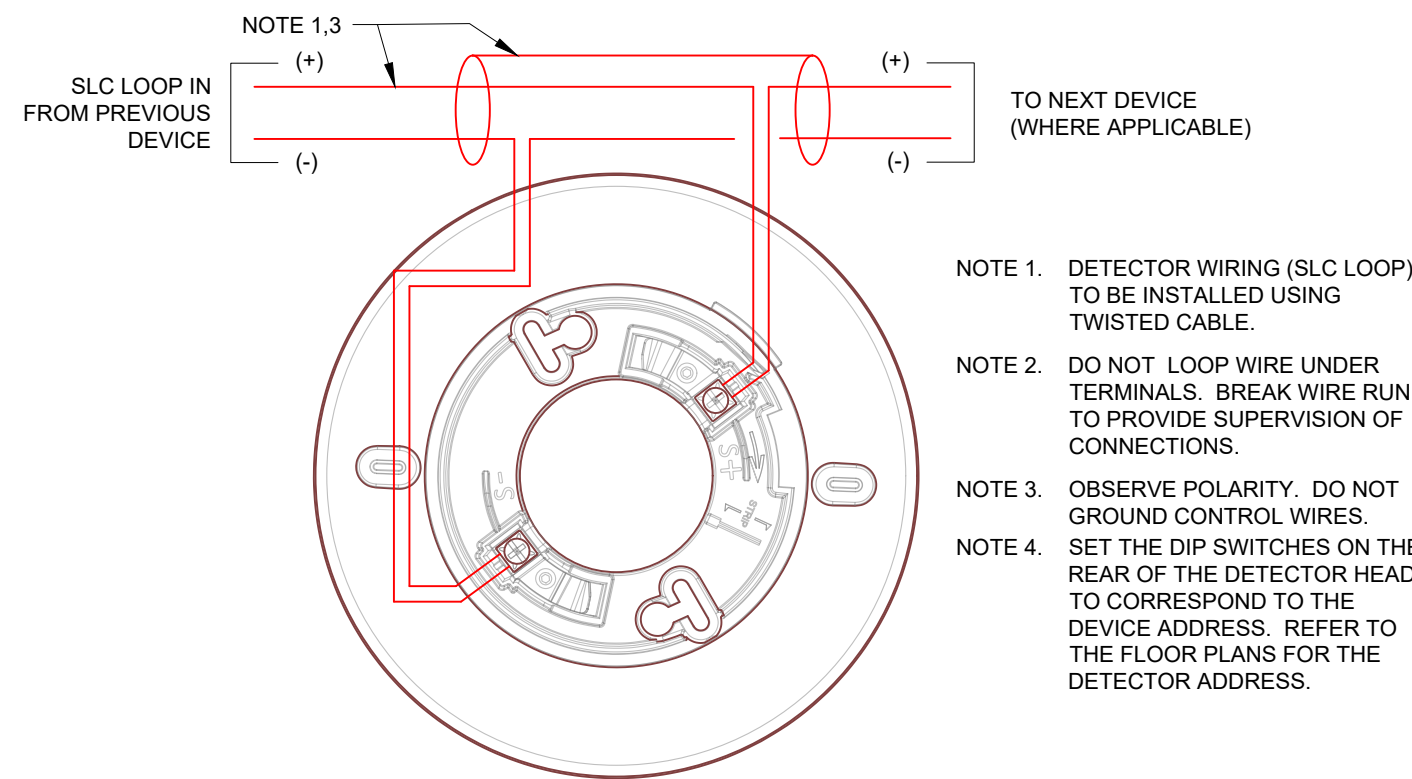
City of Lee's Summit, MO

CODE REFERENCES

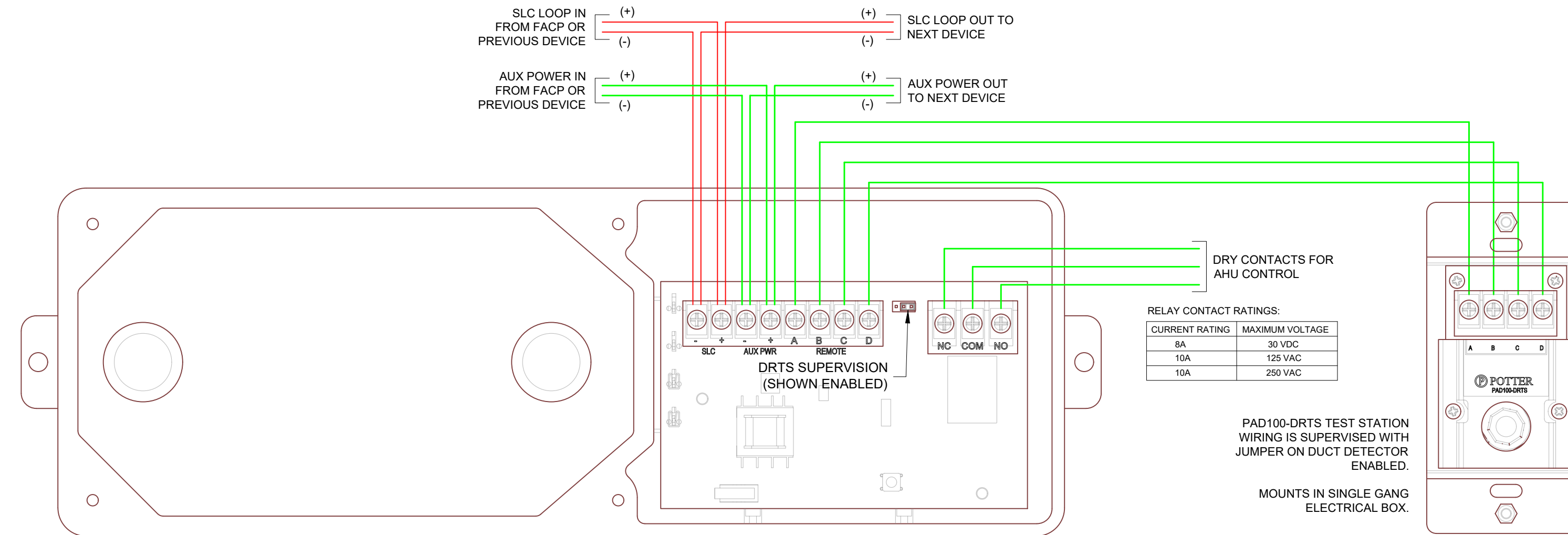


| KEYED NOTES | | DWG SHEET # F-2 |
|-------------|--|-----------------|
| KEY # | NOTE TEXT | |
| 1 | ELECTRICAL CONTRACTOR TO PROVIDE DEDICATED 120 VAC POWER CIRCUIT TO FIRE ALARM PANEL. RECORD CIRCUIT NUMBER ON PANELBOARD LEGEND AND INSIDE OF FACP DOOR. | |
| 2 | MOUNT RTS REMOTE DUCT DETECTOR ALARM INDICATOR ON STEEL COLUMN OR NEAREST AVAILABLE WALL SURFACE. COORDINATE EXACT LOCATION WITH OWNER. | |
| 3 | EXTERIOR NOTIFICATION DEVICE LOCATED DIRECTLY ABOVE FIRE DEPARTMENT SIAMSE CONNECTION (FDC) AT 8' TO 10' A.F.G. DEVICE PROGRAMMED TO ACTIVATE ON SPRINKLER WATERFLOW IN ACCORDANCE WITH I/O MATRIX ON SHEET FA-1. SEE DETAIL ON FA-3 FOR SOUNDER SETTINGS. | |
| 4 | OWNER TO PROVIDE I/P CONNECTION FOR DACT IF DESIRED FOR PRIMARY OR BACKUP COMMUNICATION CHANNEL TO CENTRAL STATION MONITORING SERVICE. | |
| 5 | EXTERIOR HORN/STROBE NOT FOR FDC APPLICATION. DEVICE SHALL OPERATE ON GENERAL ALARM AND MOUNT AT NORMAL NOTIFICATION APPLIANCE HEIGHT. | |

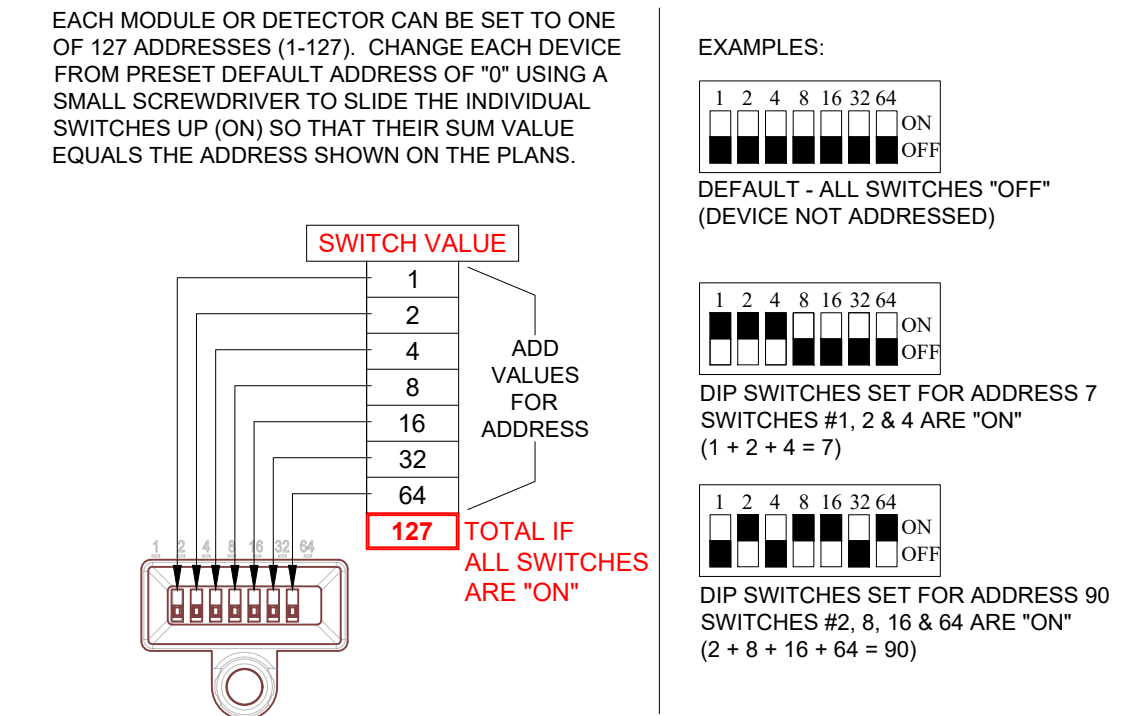




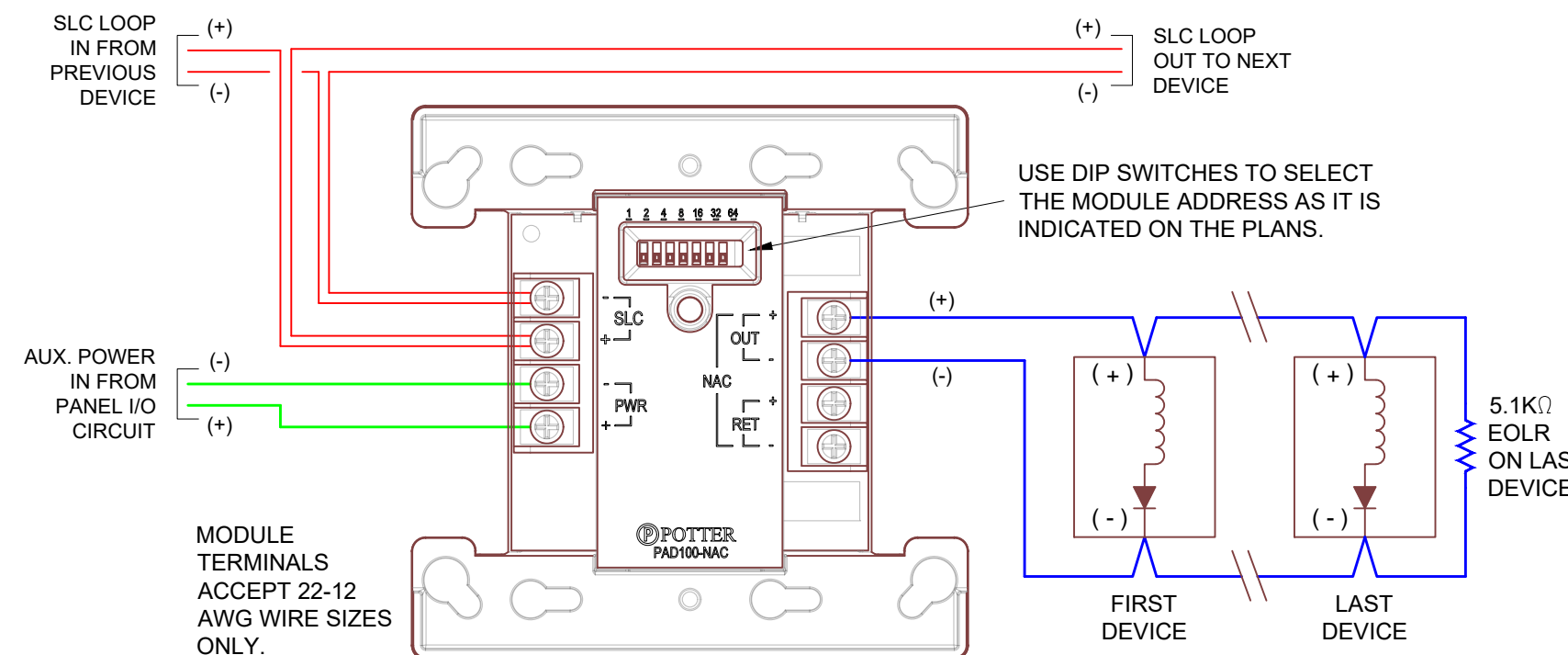
PAD100-6DB DETECTOR BASE DETAIL



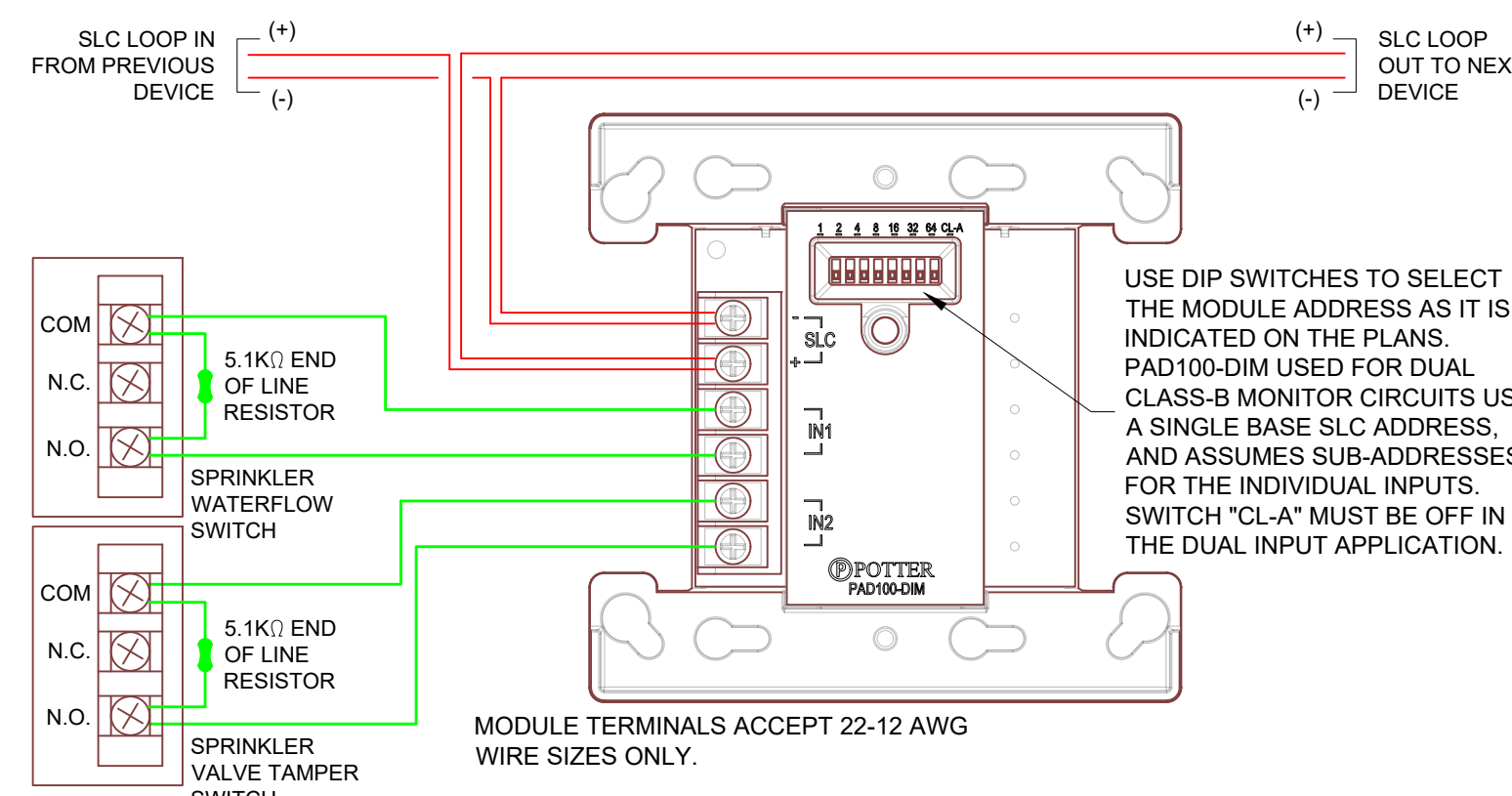
PAD100-DUCTR DUCT DETECTOR HOUSING WITH REMOTE TEST STATION



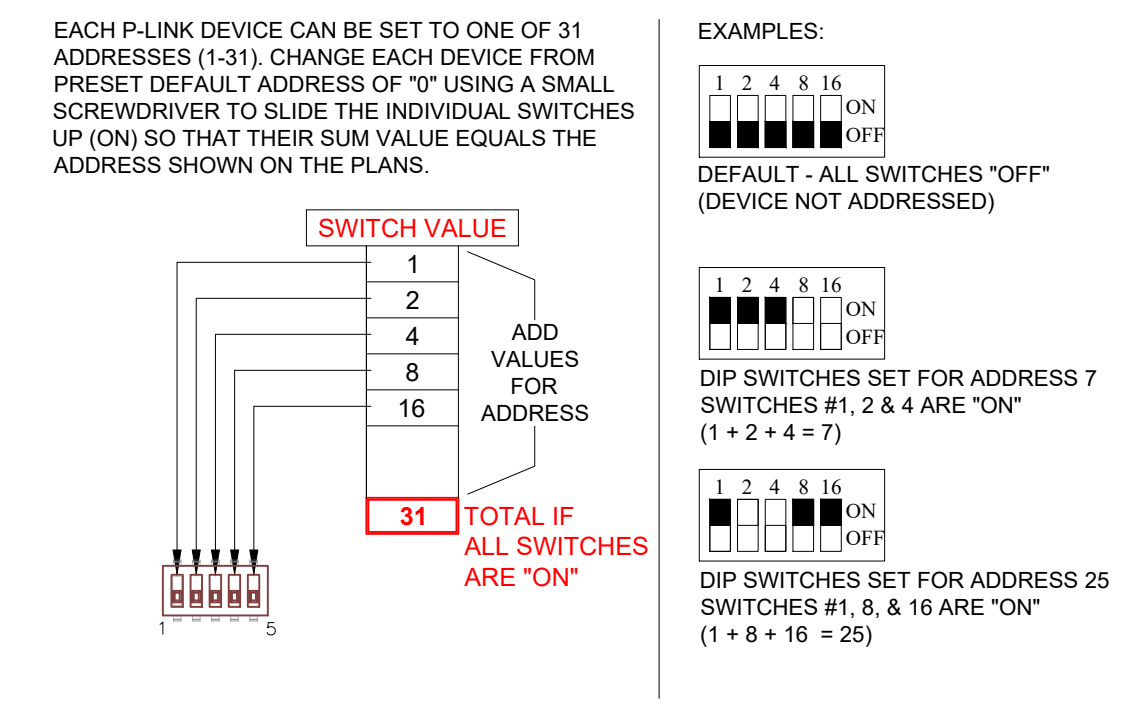
SETTING SLC ADDRESS (POTTER PAD100)



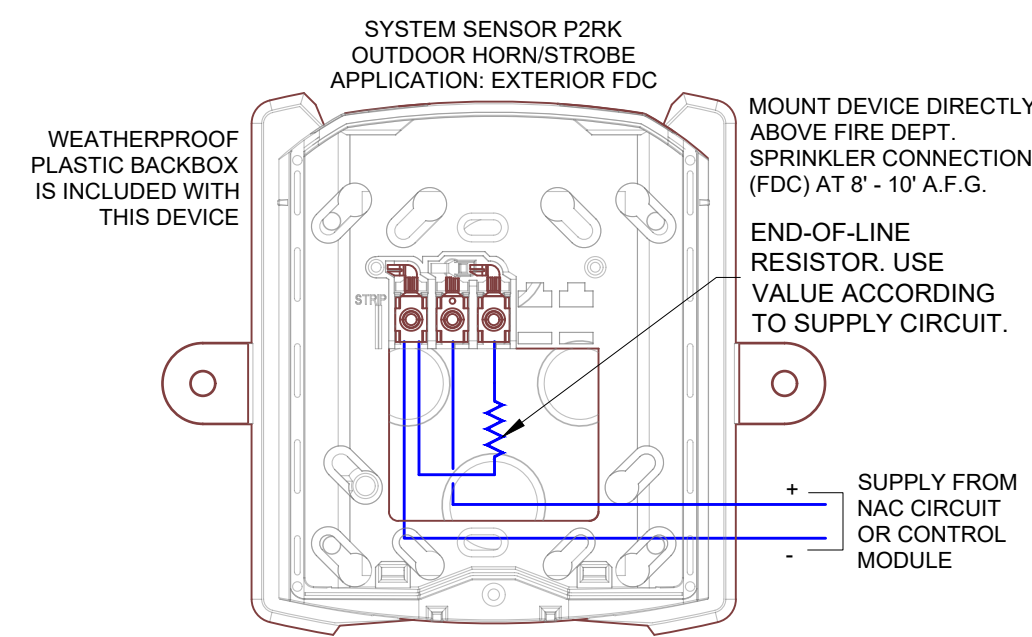
PAD100-NAC CONTROL MODULE DETAIL



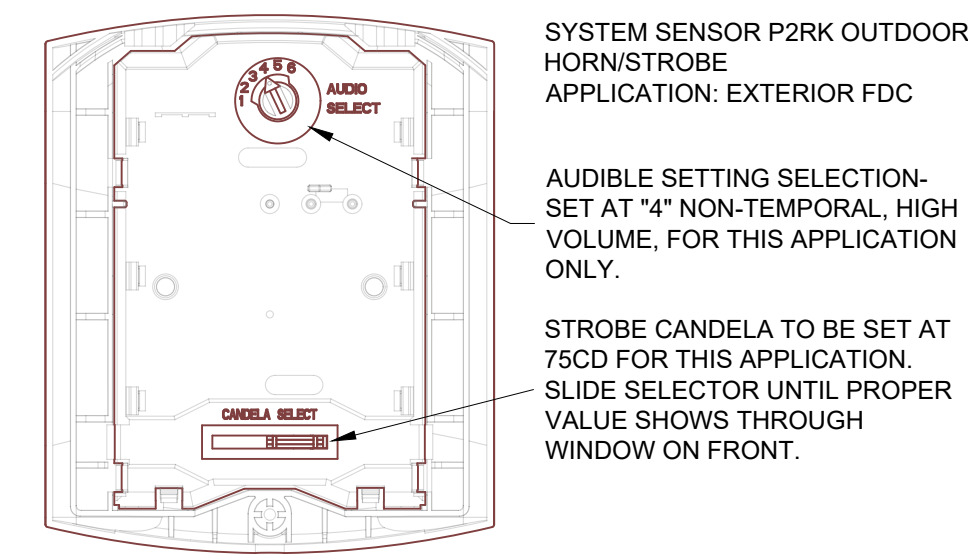
PAD100-DIM DUAL MONITOR MODULE DETAIL



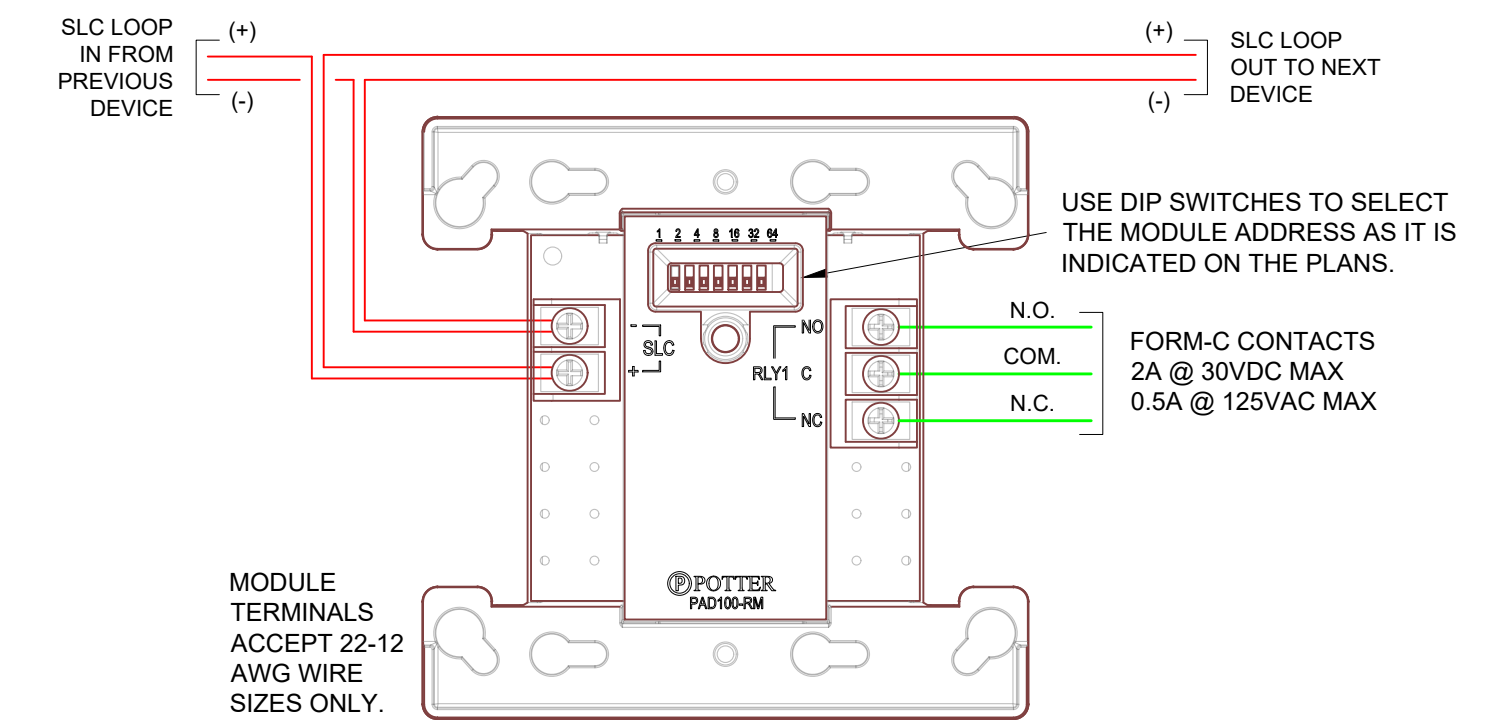
SETTING P-LINK ADDRESS (POTTER PAD100)



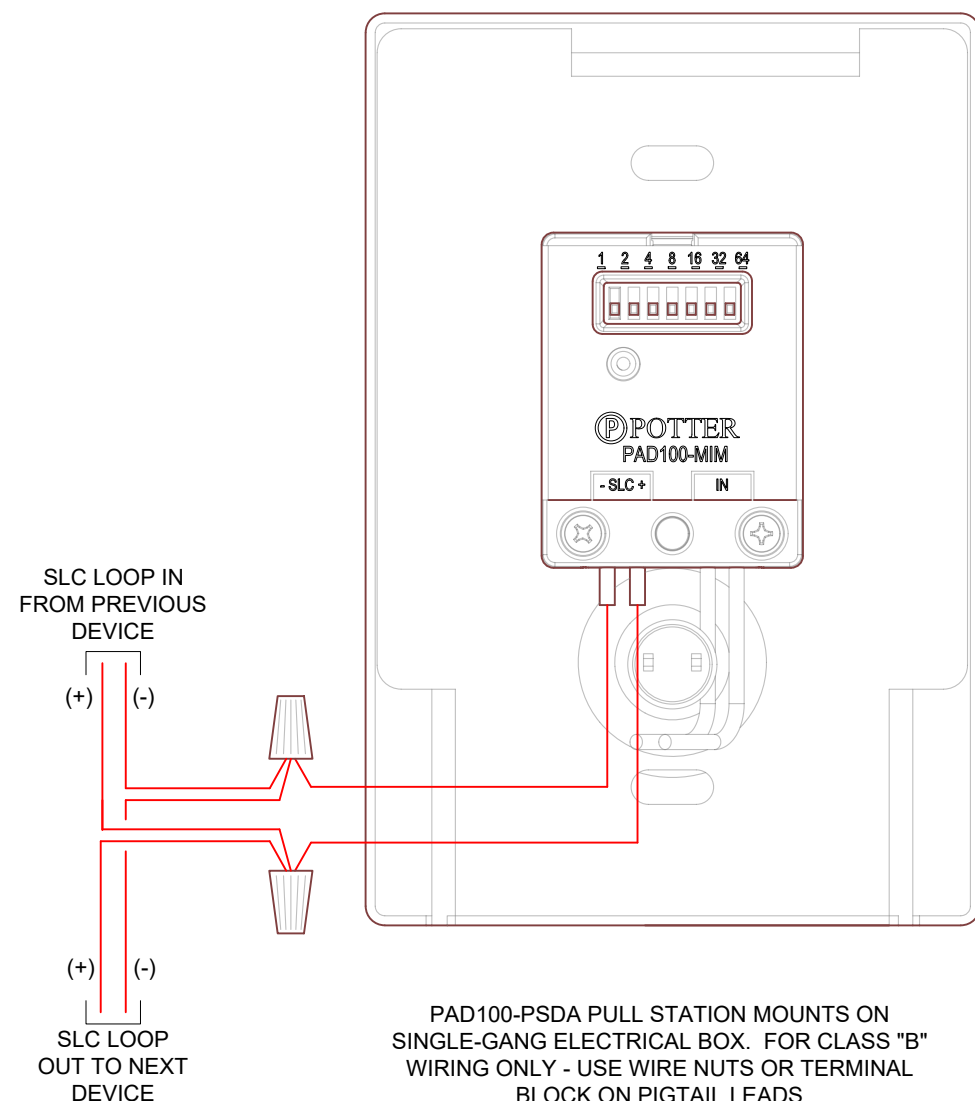
SYSTEM SENSOR P2RK OUTDOOR HORN / STROBE



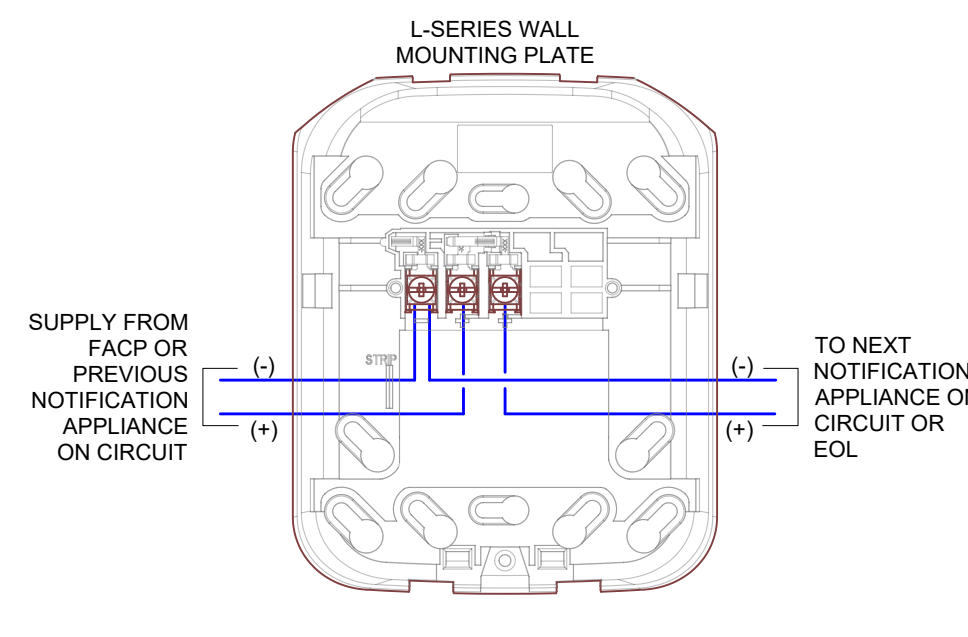
P2RK OUTDOOR HORN / STROBE CANDELA & AUDIBLE SETTINGS



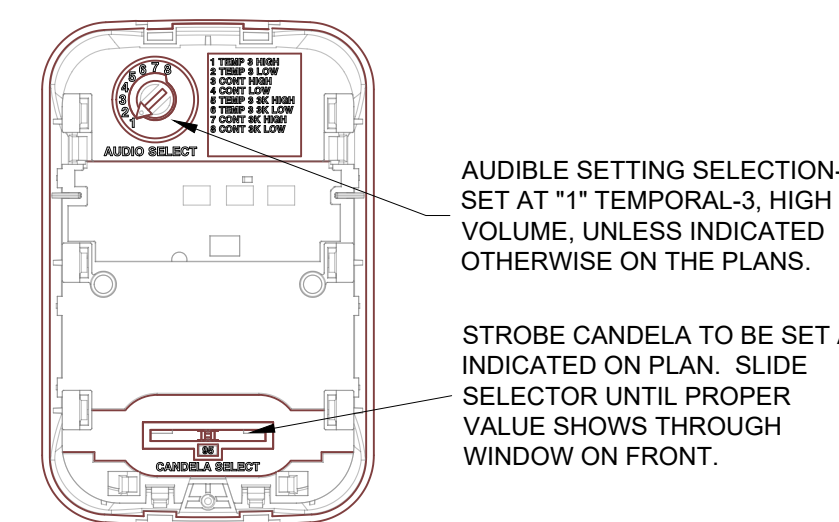
PAD100-RM RELAY MODULE DETAIL



PAD100-PSDA WIRING DETAIL

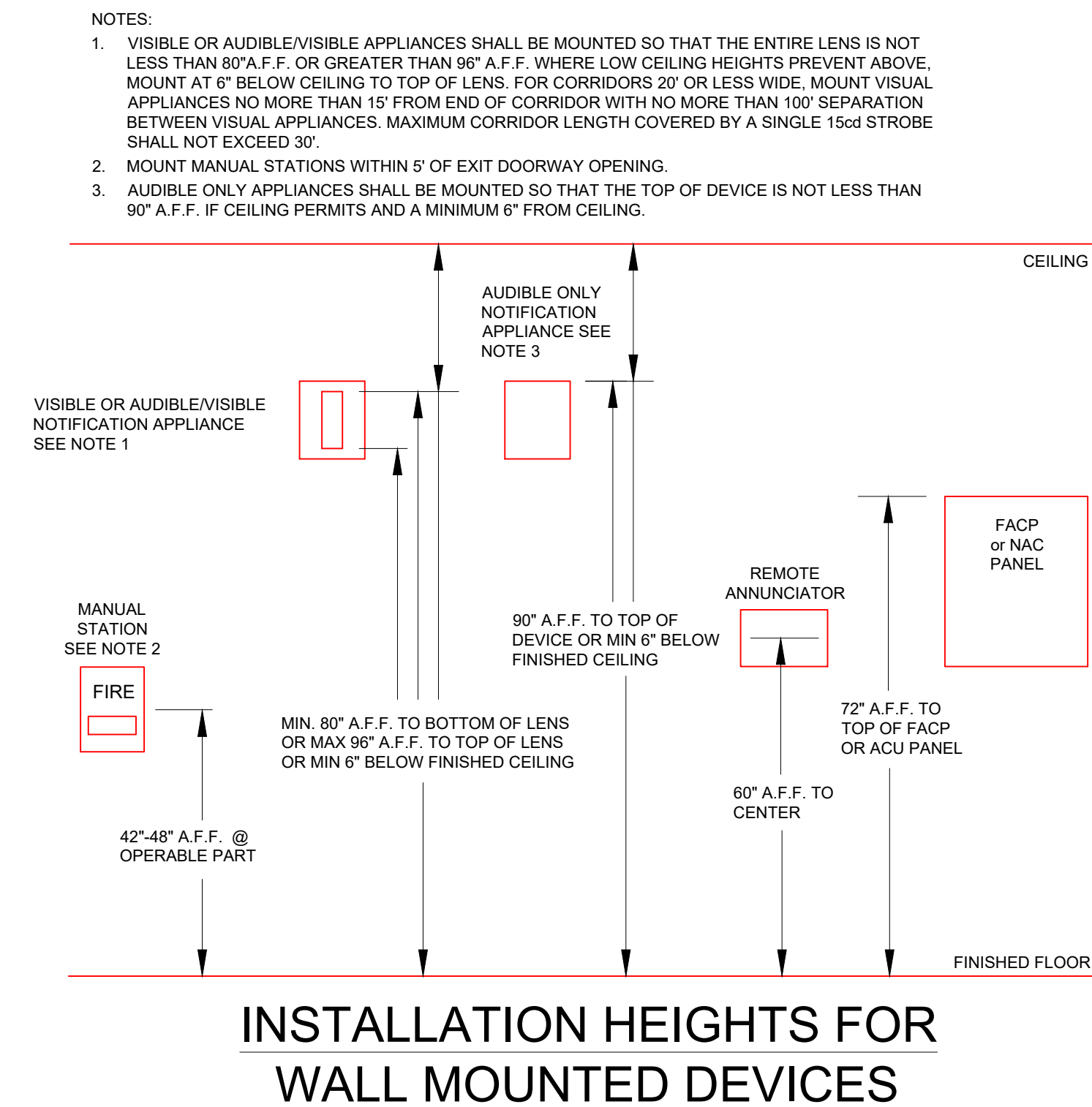
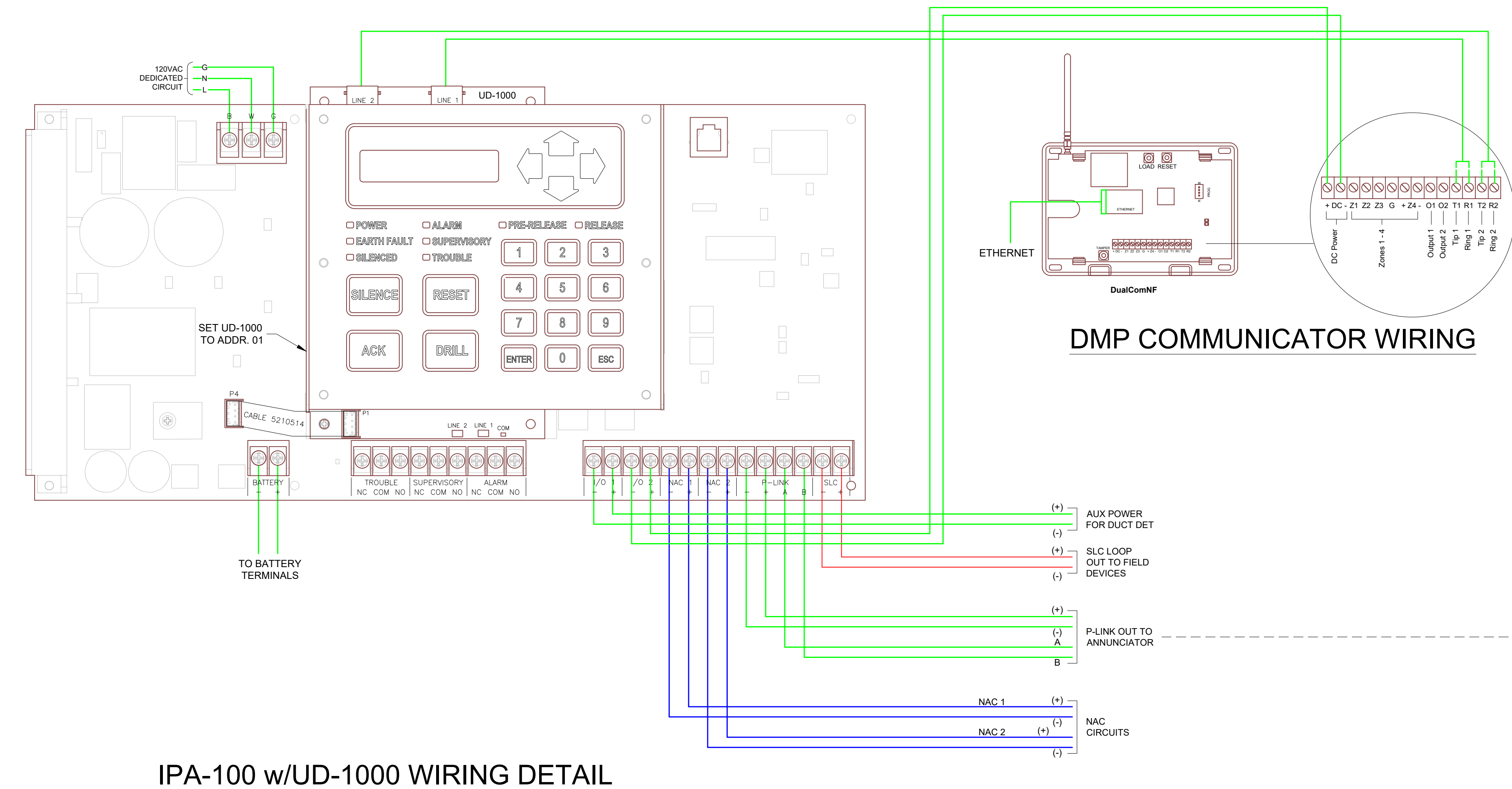
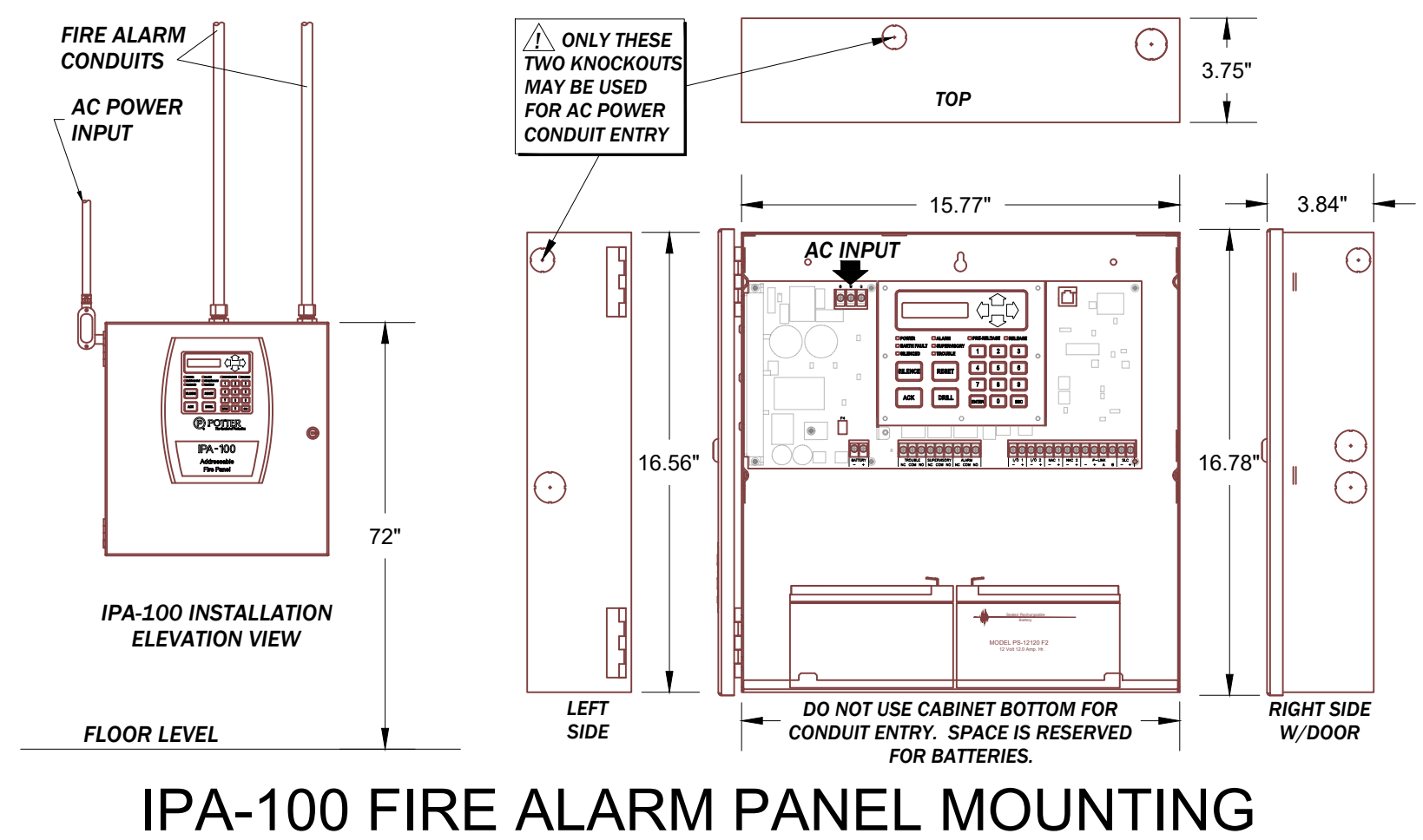
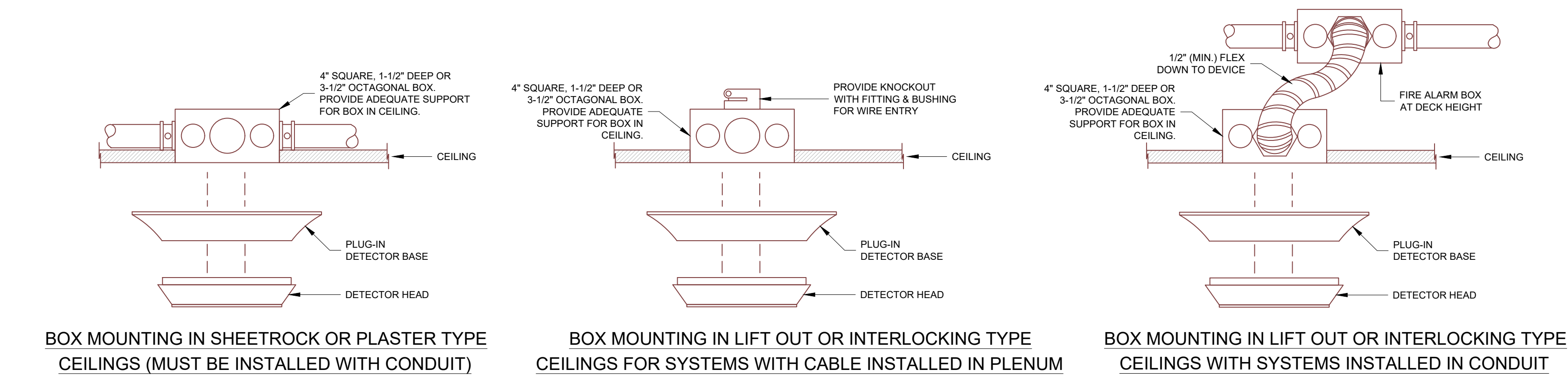


SYSTEM SENSOR L-SERIES HORN / STROBE & STROBE

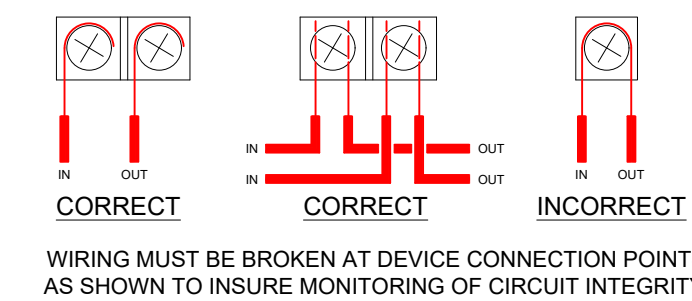


L-SERIES HORN / STROBE CANDELA & AUDIBLE SETTINGS

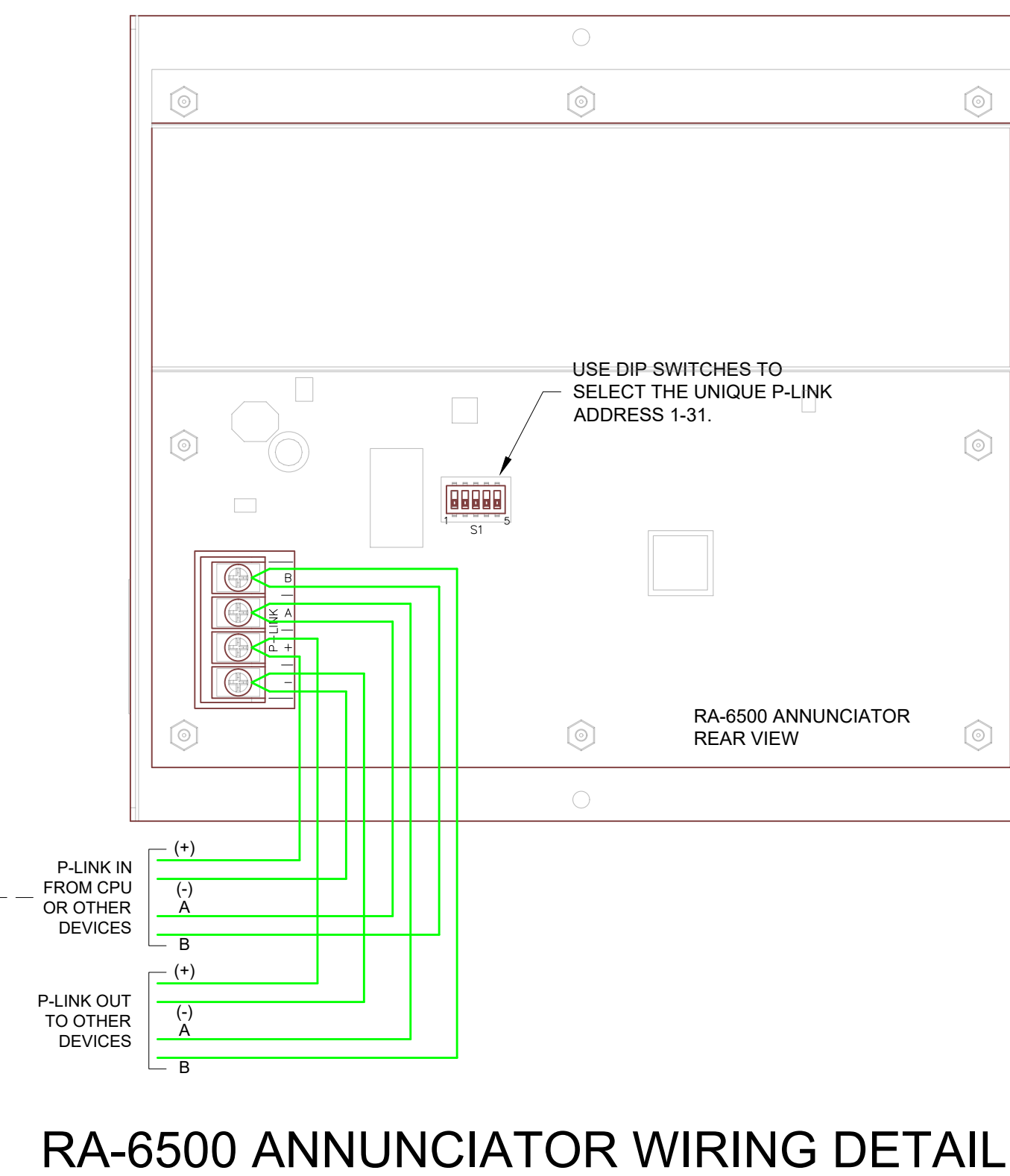




INSTALLATION HEIGHTS FOR WALL MOUNTED DEVICES



WIRING METHODS



RA-6500 ANNUNCIATOR WIRING DETAIL