Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 02/20/18

SILENT KNIGHT

5700 Calculations
Version 10.24.14

Global Project Values:

Project Name: 1519 Forest Ave
Project ID:
Prepared By: C L'Heureux
Date: 1/23/2017

Standby Hours: 24
Alarm Mins: 5
Derating Factor: 1.2
Voltage Drop Warning Threshold % : 10

Panel ID: 5700
Location:

Model: 5700 Add. Fire Alarm Control Panel
Volts: 24 VDC

Max NAC Current: 2.5 Amps
Max Panel Current: 2.5 Amps

| Ckt.# | Circuit Name | Qty | Current Draw Standby | Current Draw Alarm | Wire AWG & Type | Ohms Per 1000 Ft. | Length(ft) One-Way | Actual Ohms | Volts @ EOL | %Drop |
|---|---|---|---|---|---|---|---|---|---|---|
| 5700 | 5700 CTRL Panel | 1 | 0.200 | 0.365 | | | | | | |
| SK | Photo, Photo-T, PhotoR | 1 | 0.000 | 0.000 | | | | | | |
| SK | Ion | | 0.000 | 0.000 | | | | | | |
| SK | Heat, Heat-HT, ROR | | 0.000 | 0.000 | | | | | | |
| SK | Beam, Beam-T | | 0.000 | 0.000 | | | | | | |
| SK | Duct | | 0.000 | 0.000 | | | | | | |
| SK | Acclimate | | 0.000 | 0.000 | | | | | | |
| SK | FIRE-CO | | 0.000 | 0.000 | | | | | | |
| SK | Control | | 0.000 | 0.000 | | | | | | |
| SK | Control-6 | | 0.000 | 0.000 | | | | | | |
| SK | RelayMon-2 | | 0.000 | 0.000 | | | | | | |
| SK | Monitor, Minimon | 1 | 0.000 | 0.000 | | | | | | |
| SK | Monitor-2 | | 0.000 | 0.000 | | | | | | |
| SK | Monitor-10 | | 0.000 | 0.000 | | | | | | |
| SK | Pull-SA, Pull-DA | 5 | 0.002 | 0.002 | | | | | | |
| SK | Relay | | 0.000 | 0.000 | | | | | | |
| SK | Relay-6 | | 0.000 | 0.000 | | | | | | |
| SK | Zone | | 0.000 | 0.000 | | | | | | |
| SK | Zone-6 | | 0.000 | 0.000 | | | "NA" | | | |
| SK | Isolator Module | | 0.000 | 0.000 | | | | | | |
| B224BI | Isolator Base | | 0.000 | 0.000 | | | | | | |
| B200SR | Sounder Base | | 0.000 | 0.000 | | | | | | |
| B200S | Intelligent Sounder Base | | 0.000 | 0.000 | | | | | | |
| B200SR-LF | Low Freq Sounder Base | | 0.000 | 0.000 | | | | | | |
| B200S-LF | Low Freq Sounder Base | | 0.000 | 0.000 | | | | | | |
| B224RB | Relay Base | | 0.000 | 0.000 | | | | | | |
| RTS151 | Magnetic Remote Test | | 0.000 | 0.000 | | | | | | |
| RTS151KEY | Key Activated Test | | 0.000 | 0.000 | | | | | | |
| RA100Z | Remote LED | | 0.000 | 0.000 | | | | | | |
| 5860 | LCD Remote Annunc. | | 0.000 | 0.000 | | | | | | |
| 5824 | LCD Remote Annunc. | | 0.000 | 0.000 | | | | | | |
| 5496 | Power Expander | | 0.000 | 0.000 | | | | | | |
| 5895XL | Power Expander | | 0.000 | 0.000 | | | | | | |
| 5865-3 | LED Annunciator (3G) | | 0.000 | 0.000 | | | | | | |
| 5865-4 | LED Annunciator (4G) | | 0.000 | 0.000 | | | | | | |
| 5880 | LED Driver Module | | 0.000 | 0.000 | | | | | | |
| 5883 | Relay Module | | 0.000 | 0.000 | | | | | | |
| NAC #1 | Notification Appl Circuit | | 0.000 | 0.726 | #16 Solid | 4.02 | 110 | 0.88 | 19.76 | 3.15% |
| NAC #2 | Notification Appl Circuit | | 0.000 | 0.000 | #16 Solid | 4.02 | | 0.00 | 20.40 | 0.00% |
| | Total Standby Current (Amps) | | 0.203 | 1.094 | Total Alarm Current (Amps) | | | | | |
| | Standby Time In Hours | | 24 | 0.083 | Alarm Time In Minutes / 60 | | (5 Mins) | | | |
| | Total Standby AH Required | | 4.861 | 0.091 | Total Alarm AH Required | | | | | |

| | |
|---|---|
| Total Combined AH Required | 4.95 |
| Multiply By The Derating Factor | 1.20 |
| Minimum Battery AmpHours Required | **5.94** |

**Command Shortcuts**

Configure Circuits

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