SILENT KNIGHT

SK5895XL Calculations
Version 10.24.14

Global Project Values:

Project Name: Goodwill Lancaster St 2nd Flr
Project ID: #319541SP
Prepared By: Norris Inc.
Date: Feb 5th, 2015

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

Panel ID: 5895XL
Location: TBD

Model: 5895XL Power Expander
Volts: 24 VDC

Max NAC Current: 3.0 Amps
Max Panel Current: 6.0 Amps

| Part.# | Description | Qty | Current Draw Standby | Current Draw Alarm | Wire AWG & Type | Ohms Per 1000 Ft. | Length(ft) One-Way | Actual Ohms | Volts @ EOL | %Drop |
|---|---|---|---|---|---|---|---|---|---|---|
| 5895XL | 5895XL Pwr Module | 1 | 0.040 | 0.160 | | | | | | |
| SK | Photo, Photo-T | | 0.000 | 0.000 | | | | | | |
| SK | Ion | | 0.000 | 0.000 | | | | | | |
| SK | Heat, Heat-HT | | 0.000 | 0.000 | | | | | | |
| SK | Heat 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 | Relaymon-2 | | 0.000 | 0.000 | | | | | | |
| SK | Control-6 | | 0.000 | 0.000 | | | | | | |
| SK | Monitor, Minimon | | 0.000 | 0.000 | | | | | | |
| SK | Monitor-2 | | 0.000 | 0.000 | | | | | | |
| SK | Monitor-10 | | 0.000 | 0.000 | | | | | | |
| SK | Pull-SA, Pull-DA | | 0.000 | 0.000 | | | | | | |
| 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 | | | | | | |
| SK | Isolator | | 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 | | | | | | |
| 5815XL | SLC Expander | | 0.000 | 0.000 | | | | | | |
| 5860 | LCD Remote Annunc | | 0.000 | 0.000 | | | | | | |
| 5824 | Serial/Parallel Module | | 0.000 | 0.000 | | | | | | |
| 5496 | Power Expander | | 0.000 | 0.000 | | | | | | |
| 5895XL | Power Expander | | 0.000 | 0.000 | | | | | | |
| 5865-4 | LED Annunciator (4G) | | 0.000 | 0.000 | | | | | | |
| 5865-3 | LED Annunciator (3G) | | 0.000 | 0.000 | | | | | | |
| 5880 | LED Driver Module | | 0.000 | 0.000 | | | | | | |
| 5883 | Relay Module | | 0.000 | 0.000 | | | | | | |
| EVS-SW24 | Switch Expander | | 0.000 | 0.000 | | | | | | |
| EVS-AMP | 50W, 100W, 125W | | 0.000 | 0.000 | | | | | | |
| EVS-RVM | Remote Voice Module | | 0.000 | 0.000 | | | | | | |
| EVS-100WBU | Backup Amp Card | | 0.000 | 0.000 | | | | | | |
| PGM-I/O #1 | Notification Appl Circuit | | 0.000 | 0.874 | #12 Solid | 2.52 | 128 | 0.65 | 23.43 | 2.38% |
| PGM-I/O #2 | Notification Appl Circuit | | 0.000 | 0.865 | #14 Solid | 2.52 | 160 | 0.81 | 23.30 | 2.92% |
| PGM-I/O #3 | Notification Appl Circuit | | 0.000 | 0.000 | #12 Solid | 1.59 | | 0.00 | 20.40 | 0.00% |
| PGM-I/O #4 | Notification Appl Circuit | | 0.000 | 0.000 | #12 Solid | 1.59 | | 0.00 | 20.40 | 0.00% |
| PGM-I/O #5 | Notification Appl Circuit | | 0.000 | 0.000 | #12 Solid | 1.59 | | 0.00 | 20.40 | 0.00% |
| PGM-I/O #6 | Notification Appl Circuit | | 0.000 | 0.000 | Total Alarm Current (Amps) | | | | | |
| | Total Standby Current (Amps) | | 0.040 | 1.899 | Alarm Time In Minutes / 60 | | (5 Mins) | | | |
| | Standby Time In Hours | | 24 | 0.083 | Total Alarm AH Required | | | | | |
| | Total Standby AH Required | | 0.960 | 0.158 | | | | | | |
| | Total Combined AH Required | | 1.12 | | | | | | | |
| | Multiply By The Derating Factor | | 1.20 | | | | | | | |
| | Minimum Battery AmpHours Required | | 1.34 | | | | | | | |

NA

Command Shortcuts

Configure Circuits

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| NOTIFICATION APPLIANCE CIRCUIT VOLTAGE DROPS | | | | | | |
|---|---|---|---|---|---|---|
| Goodwill | | | | | | |
| Portland, Maine | | | | | | |
| **PANEL** | **CIRCUIT** | **LENGTH** | **CURRENT DRAW** | **VOLTAGE DROP** | **VOLTAGE LOSS** | **END VOLTAGE** |
| FCPS | NAC 1 | 128 FT | .874A | .57VDC | 2.38% | 23.43VDC |
| FCPS | NAC 2 | 160 FT | .865A | .70VDC | 2.92% | 23.3VDC |
| Calculated Using #14 AWG Wire @ Maximum Distance/Current | | | | | | |