



SILENT KNIGHT

5820XL-EVS Calculations
Version 10.24.14

Global Project Values:

Project Name: **CASCADE CHRISTIAN JR HIGH**
Project ID: **PC190002**
Prepared By: **DAVID JUSTICE**
Date: **10/18/2023**

Standby Hours: **24**
Alarm Mins: **15**
Derating Factor: **1.2**
Voltage Drop Warning
Threshold % : **15**

Panel ID: **5820XL-EVS**
Location: **SPRINKLER RISER ROOM**

Model: **5820XL-EVS Add. Fire Alarm Control**
Volts: **24 VDC**

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

Ckt.#	Circuit Name	Qty	Current Draw		Wire AWG & Type	Ohms Per 1000 Ft.	Length(ft) One-Way	Actual Ohms	Volts @ EOL	%Drop
			Standby	Alarm						
5820XL-EVS	5820XL-EVS CTRL Panel	1	0.275	0.440						
SK	Photo, Photo-T, Photo-R	128	0.038	0.038						
SK	Ion		0.000	0.000						
SK	Heat, Heat-HT		0.000	0.000						
SK	Heat ROR	0	0.000	0.000						
SK	Beam, Beam-T		0.000	0.000						
SK	Duct	2	0.001	0.001						
SK	Acclimate		0.000	0.000						
SK	Fire-CO		0.000	0.000						
SK	Control	1	0.000	0.000						
SK	Control-6		0.000	0.000						
SK	Monitor, Minimon	11	0.004	0.004						
SK	Monitor-2	0	0.000	0.000						
SK	Monitor-10		0.000	0.000						
SK	Pull-SA, Pull-DA	10	0.004	0.004						
SK	Relay	4	0.001	0.001						
SK	Relay-6		0.000	0.000						
SK	Zone		0.000	0.000						
SK	Zone-6		0.000	0.000						
SK	Relay-Mon-2		0.000	0.000						
SK	Isolator Module		0.000	0.000						
B224BI	Isolator Base		0.000	0.000						
B200SR	Sounder Base		0.000	0.000						
B200S	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 Loop Expander	1	0.055	0.055						
5860	LCD Remote Annunc	1	0.020	0.025						
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-VCM	Voice Control Module		0.000	0.000						
EVS-SW24	Switch Expander		0.000	0.000						
EVS-AMP	50W, 100W, or 125W	1	0.010	0.010						
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	0.160	#14 Solid	2.52	30	0.15	20.38	0.12%
PGM-I/O #2	Notification Appl Circuit		0.000	0.202	#14 Solid	2.52	20	0.10	20.38	0.10%
PGM-I/O #3	Notification Appl Circuit		0.000	0.000	#14 Solid	2.52		0.00	20.40	0.00%
PGM-I/O #4	Notification Appl Circuit		0.000	0.000	#14 Solid	2.52		0.00	20.40	0.00%
PGM-I/O #5	Notification Appl Circuit		0.000	0.000	#14 Solid	2.52		0.00	20.40	0.00%
PGM-I/O #6	Notification Appl Circuit		0.000	0.000	#14 Solid	2.52		0.00	20.40	0.00%
Total Standby Current (Amps)			0.408	0.004	Total Alarm Current (Amps)					
Standby Time In Hours			24	0.250	Alarm Time In Minutes / 60 (15 Mins)					
Total Standby AH Required			9.797	0.001	Total Alarm AH Required					
Total Combined AH Required			9.80		Command Shortcuts					
Multiply By The Derating Factor			1.20							
Minimum Battery AmpHours Required			11.76							

Configure Circuits

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