



SILENT KNIGHT

5895XL Calculations
Version 10.24.14

Global Project Values:

Project Name:
 Project ID:
 Prepared By:
 Date:

Standby Hours:
 Alarm Mins:
 Derating Factor:
 Voltage Drop Warning
 Threshold % :

Panel ID:
 Location:

Model: 5895XL Power Expander
 Volts: 24 VDC

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

Part.#	Description	Qty	Current Draw		Wire AWG & Type	Ohms Per 1000 Ft.	Length(ft) One-Way	Actual Ohms	Volts @ EOL	%Drop
			Standby	Alarm						
5895XL	5895XL Pwr Module	1	0.040	0.160						
SD500-AIM	Addr. Input Mod		0.000	0.000						
SD500-MIM	Mini-Input Module		0.000	0.000						
SD500-ARM	Addr. Relay Module		0.000	0.000						
SD500-PS	Addr. Pull Station	7	0.004	0.004						
SD505-AIS	Addr. Ion Smoke Det		0.000	0.000						
SD505-AHS	Addr. Heat Detector		0.000	0.000						
SD505-APS	Addr. Photo Smoke Det	36	0.020	0.020						
SD505-DUCTR	Addr. Duct w/Relay		0.000	0.000						
SD505-DUCT	Addr. Duct		0.000	0.000						
SD500-ANM	Addr. Notification Module		0.000	0.000						
SD500-LED	Addr. LED Module		0.000	0.000						
SD500-SDM	Addr. Smoke Det. Mod.		0.000	0.000						
SD505-6RB	Addr. Det. Relay Base		0.000	0.000						
SD505-6SB	Addr. Det. Sounder Base		0.000	0.000						
SD505-6IB	Addr. Det. Isolator Base		0.000	0.000						
SD500-LIM	Line Isolation Module		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, 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	0.528	#14 Solid	2.52	150	0.76	20.00	1.96%
PGM-I/O #2	Notification Appl Circuit		0.000	1.264	#14 Solid	2.52	300	1.51	18.49	9.37%
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	#12 Solid	1.59		0.00	20.40	0.00%
Total Standby Current (Amps)			0.074	1.986	Total Alarm Current (Amps)					
Standby Time In Hours			24	0.250	Alarm Time In Minutes / 60			(15 Mins)		
Total Standby AH Required			1.768	0.496	Total Alarm AH Required					
Total Combined AH Required			2.26		Command Shortcuts					
Multiply By The Derating Factor			1.20		<input type="button" value="Configure Circuits"/>					
Minimum Battery AmpHours Required			2.72		<input type="button" value="Print Page"/>					



Circuit Configuration

Project Information

Project Name: CASCADE CHRISTIAN

Project ID: PORTABLES

Prepared By: DAVID JUSTICE

Date: 7/9/2024

Ckt. Number: PGM-I/O #1		Panel ID: 5895XL			
Ckt. Name: Notification Appl Circuit		I/O Use: Notification Appl Circuit ▼			
Qty	Device	Current Draw Each Standby	Current Draw Each Alarm	Current Draw Total Standby	Current Draw Total Alarm
8	System Sensor S/SC Strobe (15cd)	0.000	0.066	0.000	0.528
	Unused	0.000	0.000	0.000	0.000
	Unused	0.000	0.000	0.000	0.000
	Unused	0.000	0.000	0.000	0.000
				0.000	0.000
Totals				0.000	0.528

Ckt. Number: PGM-I/O #2		Panel ID: 5895XL			
Ckt. Name: Notification Appl Circuit		I/O Use: Notification Appl Circuit ▼			
Qty	Device	Current Draw Each Standby	Current Draw Each Alarm	Current Draw Total Standby	Current Draw Total Alarm
8	System Sensor S/SC Strobe (75cd)	0.000	0.158	0.000	1.264
	Unused	0.000	0.000	0.000	0.000
	Unused	0.000	0.000	0.000	0.000
	Unused	0.000	0.000	0.000	0.000
				0.000	0.000
Totals				0.000	1.264

Ckt. Number: PGM-I/O #3		Panel ID: 5895XL			
Ckt. Name: Notification Appl Circuit		I/O Use: Notification Appl Circuit ▼			
Qty	Device	Current Draw Each Standby	Current Draw Each Alarm	Current Draw Total Standby	Current Draw Total Alarm
	Unused	0.000	0.000	0.000	0.000
	Unused	0.000	0.000	0.000	0.000
	Unused	0.000	0.000	0.000	0.000
	Unused	0.000	0.000	0.000	0.000
				0.000	0.000
Totals				0.000	0.000



Circuit Configuration

Project Information

Project Name: CASCADE CHRISTIAN

Project ID: PORTABLES

Prepared By: DAVID JUSTICE

Date: 7/9/2024

Ckt. Number: PGM-I/O #4		Panel ID: 5895XL			
Ckt. Name: Notification Appl Circuit		I/O Use: Notification Appl Circuit ▼			
Qty	Device	Current Draw Each		Current Draw Total	
		Standby	Alarm	Standby	Alarm
	Unused	0.000	0.000	0.000	0.000
	Unused	0.000	0.000	0.000	0.000
	Unused	0.000	0.000	0.000	0.000
	Unused	0.000	0.000	0.000	0.000
				0.000	0.000
Totals				0.000	0.000

Ckt. Number: PGM-I/O #5		Panel ID: 5895XL			
Ckt. Name: Notification Appl Circuit		I/O Use: Notification Appl Circuit ▼			
Qty	Device	Current Draw Each		Current Draw Total	
		Standby	Alarm	Standby	Alarm
	Unused	0.000	0.000	0.000	0.000
	Unused	0.000	0.000	0.000	0.000
	Unused	0.000	0.000	0.000	0.000
	Unused	0.000	0.000	0.000	0.000
				0.000	0.000
Totals				0.000	0.000

Ckt. Number: PGM-I/O #6		Panel ID: 5895XL			
Ckt. Name: Notification Appl Circuit		I/O Use: Notification Appl Circuit ▼			
Qty	Device	Current Draw Each		Current Draw Total	
		Standby	Alarm	Standby	Alarm
	Unused	0.000	0.000	0.000	0.000
	Unused	0.000	0.000	0.000	0.000
	Unused	0.000	0.000	0.000	0.000
	Unused	0.000	0.000	0.000	0.000
				0.000	0.000
Totals				0.000	0.000