



**SILENT KNIGHT**

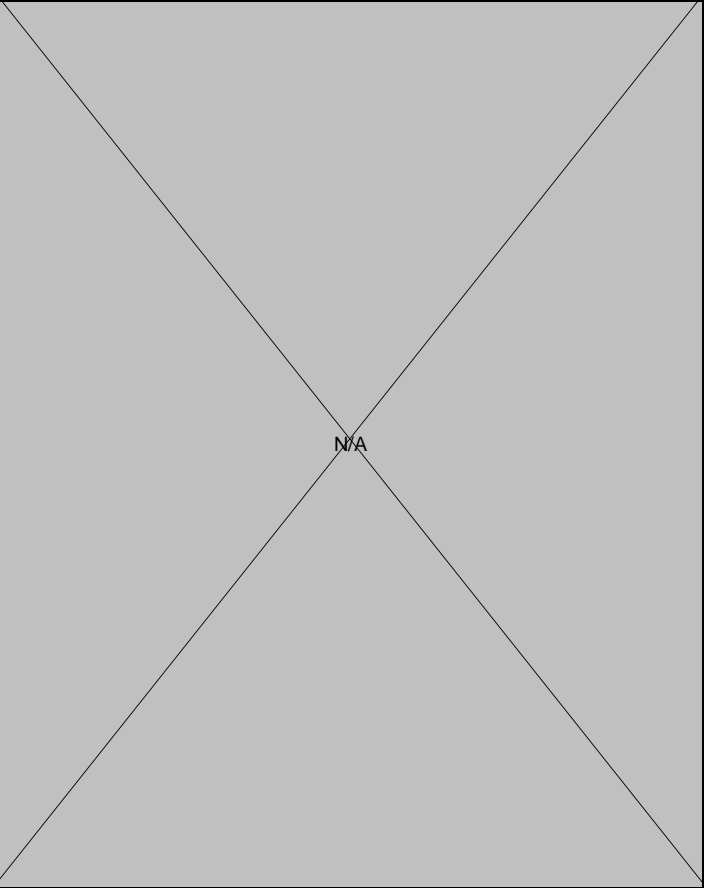
5808 Calculations  
Version 08.06.13

Global Input Values:

Project Name:	106 Exchange St.	Standby Hours:	24
Project ID:	942408	Alarm Mins:	5
Prepared By:	ZAD	Derating Factor:	1.2
Date:	5/14/2014	Voltage Drop Warning Threshold %:	10

Panel ID:	5808	Model:	5808 Add. Fire Alarm Control Panel	Max NAC Current:	3.0 Amps
Location:	Vestibule	Volts:	24 VDC	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						
5808	5808 CTRL Panel	1	0.170	0.365						
SK	Photo, Photo-T, PhotoR	9	0.003	0.003						
SK	Ion		0.000	0.000						
SK	Heat, Heat-HT, ROR	6	0.002	0.002						
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	8	0.003	0.003						
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 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						
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	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	#14 Solid	2.52	200	1.01	19.66	3.61%
NAC #1	Notification Appl Circuit		0.000	0.731	#14 Solid	2.52	120	0.60	20.22	0.89%
NAC #2	Notification Appl Circuit		0.000	0.300	#14 Solid	2.52	140	0.71	20.19	1.04%
NAC #3	Notification Appl Circuit		0.000	0.300	#14 Solid	2.52	160	0.81	20.16	1.19%
NAC #4	Notification Appl Circuit		0.000	0.300	Total Alarm Current (Amps)					
Total Standby Current (Amps)			0.178	2.004	Alarm Time In Minutes / 60		(5 Mins)			
Standby Time In Hours			24	0.083	Total Alarm AH Required					
Total Standby AH Required			4.269	0.167						
Total Combined AH Required			4.44							
Multiply By The Derating Factor			1.20							
Minimum Battery AmpHours Required			5.32							



**Command Shortcuts**

Configure Circuits

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