SILENT KNIGHT

5820XL Calculations
Version 12.30.10

Global Project Values:

Project Name: Eco Maine
Project ID:
Prepared By:
Date: 6/19/2013

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

Panel ID: 5820XL
Location:

Model: 5820XL Add. Fire Alarm Control Panel
Volts: 24 VDC

Max NAC Current: 3.0 Amps
Max Panel Current: 6.0 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
5820XL	5820XL CTRL Panel	1	0.215	0.385	N/A					
SK	Photo, Photo-T	2	0.001	0.001						
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	Control		0.000	0.000						
SK	Control-6		0.000	0.000						
SK	Relaymon		0.000	0.000						
SK	Monitor, Minimon	8	0.003	0.003						
SK	Monitor-2		0.000	0.000						
SK	Monitor-10		0.000	0.000						
SK	Pull-SA, Pull-DA	11	0.004	0.004						
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						
SSB224BI	Isolator Base		0.000	0.000						
B200SR	Sounder Base		0.000	0.000						
SSB224RB	Relay Base		0.000	0.000						
SSRTS151	Magnetic Remote Test		0.000	0.000						
SSRTS151KEY	Key Activated Test		0.000	0.000						
SSRA100Z	Remote LED		0.000	0.000						
5815XL	SLC Loop 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						
PGM-I/O #1	Notification Appl Circuit		0.000	1.532	#14 Solid	2.52	200	1.01	18.86	7.57%
PGM-I/O #2	Notification Appl Circuit		0.000	1.532	#14 Solid	2.52	200	1.01	18.86	7.57%
PGM-I/O #3	Notification Appl Circuit		0.000	1.652	#14 Solid	2.52	225	1.13	18.53	9.18%
PGM-I/O #4	Notification Appl Circuit		0.000	1.652	#14 Solid	2.52	230	1.16	18.49	9.39%
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)	0.223	6.761	Total Alarm Current (Amps)
Standby Time In Hours	24	0.083	Alarm Time In Minutes / 60 (5 Mins)
Total Standby AH Required	5.344	0.563	Total Alarm AH Required
Combined AH Required	5.91		
By The Derating Factor	1.20		
tery AmpHours Required	**7.09**		

Command Shortcuts

Configure Circuits

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CITY OF PORTLAND, MAINE
RESURGAM

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 07/30/13