Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 12/14/15

Farenhyt

IFP-50 Calculations
Version 08.06.13

Global Project Values:

Project Name: 209 State Street
Project ID: DRE
Prepared By: C. L'Heureux
Date: 10/30/2015

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

Panel ID: IFP-50 IDP Devices
Location: Basement

Model: IFP-50 Fire Alarm Control Panel
Volts: 24 VDC

Max NAC Current: 2.5 Amps
Max Panel Current: 2.5 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
IFP-50	IFP-50 Addr. Fire Panel	1	0.200	0.365						
IDP	Photo, Photo-T,PhotoR	14	0.004	0.004						
IDP	Ion		0.000	0.000						
IDP	Heat, Heat-HT, ROR	3	0.001	0.001						
IDP	Beam, Beam-T		0.000	0.000						
DNR	Duct housing		0.000	0.000						
IDP	Acclimate		0.000	0.000						
IDP	FIRE-CO	1	0.000	0.007						
IDP	Control		0.000	0.000						
IDP	Control-6		0.000	0.000						
IDP	Monitor, Minimon		0.000	0.000						
IDP	Monitor-2		0.000	0.000						
IDP	Monitor-10		0.000	0.000						
IDP	Pull-SA, Pull-DA	8	0.003	0.003						
IDP	Relay		0.000	0.000						
IDP	Relay-6		0.000	0.000						
IDP	RelayMon-2		0.000	0.000						
IDP	Zone		0.000	0.000						
IDP	Zone-6		0.000	0.000						
IDP	Iso (Isolator Module)		0.000	0.000						
B224BI	Isolator Base		0.000	0.000						
B200SR	Sounder Base		0.000	0.000						
B200S	Intelligent Sounder Base	1	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						
RA-100	LCD Remote Annunc		0.000	0.000						
RA-1000	LCD Remote Annunc	1	0.020	0.025						
5824	Serial/Parallel Module		0.000	0.000						
5496	Power Expander		0.000	0.000						
RPS-1000	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						
NAC #1	Notification Appl Circuit		0.000	0.728	#16 Solid	4.02	200	1.61	19.23	5.74%
NAC #2	Notification Appl Circuit		0.000	0.000	#12 Solid	1.59		0.00	20.40	0.00%

NA

Total Standby Current (Amps)	0.229	1.134	Total Alarm Current (Amps)
Standby Time In Hours	24	0.083	Alarm Time In Minutes / 60 (5 Mins)
Total Standby AH Required	5.489	0.094	Total Alarm AH Required
Total Combined AH Required	5.58		
Multiply By The Derating Factor	1.20		
Minimum Battery AmpHours Required	**6.70**		

Command Shortcuts

Configure Circuits

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