	NFW2-1	00 Fire Alarm Control Panel			
Protected F	Premises: Nathan Clifford Scho	ool Redevelopment	Date: 3/27/201	14	
Address:	180 Falmouth Street				
City:	Portland	State: Maine	Zip: 04101		
Prepared B	y: BK Systems, Inc.		Phone: 603-647	-8775	
Address:	4 Cote Avenue	Email: ni	Email: nikw@bksystemsinc.com		
City:	Goffstown	State: New Hampshire	Zip: 03045		
AC Branch Current requi alarm system	Current Requirements red by source to power the fire	3.00 AMPS @ 120 VA	C		
Current load non-alarm co	on the primary power supply dui onditions.	ring			
Current load	on the primary power supply du ons.	ring			
Secondary Total Second	^r Load Requirements ary Load from the calculation ta	16.30 Amp Hours ble below.			
Secondary Total Second	⁷ Load Requirements lary Load from the calculation ta Current Draw	16.30 Amp Hours ble below. Time (hours	s) Total	(AH)	
Secondary Total Second S	r Load Requirements lary Load from the calculation ta Current Draw econdary Standby Load	16.30 Amp Hours ble below. Time (hours Required Standb	s) Total y Time	(AH)	
Secondary Total Second S	v Load Requirements lary Load from the calculation ta Current Draw econdary Standby Load 0.215 A	16.30 Amp Hours able below. X Required Standb 60 hours	s) Total y Time 12.	(AH) 93	
Secondary Total Second S	v Load Requirements lary Load from the calculation ta Current Draw econdary Standby Load 0.215 A Secondary Alarm Load	16.30 Amp Hours able below. Time (hours) x Required Standb x 60 hours Required Alarm Time	s) Total y Time 12. ne (hours)	(AH) 93	
Secondary Total Second S	r Load Requirements lary Load from the calculation ta Current Draw econdary Standby Load 0.215 A Secondary Alarm Load 3.934 A	16.30 Amp Hours able below. Time (hour x Required Standb x 60 hours x Required Alarm Tim 0.167 hours	s) Total y Time 12. ne (hours) s 0.6	(AH) 93	
Secondary Total Second S	v Load Requirements lary Load from the calculation ta Current Draw econdary Standby Load 0.215 A Secondary Alarm Load 3.934 A	16.30 Amp Hours able below. Time (hour x Required Standb x 60 hours x Required Alarm Tim x 0.167 hours	s) Total y Time 12. ne (hours) s 0.6 ndary Load 13.	(AH) 93 66 58	
Secondary Total Second S	v Load Requirements lary Load from the calculation ta Current Draw econdary Standby Load 0.215 A Secondary Alarm Load 3.934 A	16.30 Amp Hours able below. Time (hour x Required Standb x 60 hours x Required Alarm Tim x 0.167 hours Total Secon Dera	s) Total y Time 12. ne (hours) s 0.6 ndary Load 13. ating factor x 1	(AH) 93 66 58 .2	
Secondary Total Second S	r Load Requirements lary Load from the calculation ta Current Draw econdary Standby Load 0.215 A Secondary Alarm Load 3.934 A	16.30 Amp Hours able below. Time (hour x Required Standb x Required Alarm Time x Required Alarm Time x 0.167 hours Total Secon Dera Secondary Load Required	s) Total y Time 12. he (hours) s 0.6 hdary Load 13. ating factor x 1 hirements 16.	(AH) 93 66 58 .2 30	
Secondary Total Second S	v Load Requirements lary Load from the calculation ta Current Draw econdary Standby Load 0.215 A Secondary Alarm Load 3.934 A	16.30 Amp Hours able below. Time (hour x Required Standb x 60 hours x Required Alarm Tim x 0.167 hours Total Secon Dera Secondary Load Required	s) Total y Time 12. he (hours) s 0.6 hdary Load 13. hting factor x 1 hirements 16.	(AH) 93 66 58 .2 30	
Secondary Total Second S Battery Se Select batteri	r Load Requirements lary Load from the calculation ta Current Draw econdary Standby Load 0.215 A Secondary Alarm Load 3.934 A lection es from the list below.	16.30 Amp Hours able below. Time (hour x Required Standb x Required Alarm Tim x 0.167 hours Total Secon Dera Secondary Load Required 18 Amp Hours	s) Total y Time 12. he (hours) s 0.6 hdary Load 13. hting factor x 1 hirements 16.	(AH) 93 66 58 .2 30	
Secondary Total Second S Battery Se Select batteri 18 AH BAT-1	r Load Requirements lary Load from the calculation ta Current Draw econdary Standby Load 0.215 A Secondary Alarm Load 3.934 A Iection es from the list below. 2180 Battery (12 volt)	16.30 Amp Hours able below. Time (hour x Required Standb x Required Alarm Tim x Required Alarm Tim x 0.167 hour Total Secon Dera Secondary Load Required 18 Amp Hours	s) Total y Time 12. he (hours) s 0.6 hdary Load 13. ating factor x 1 hirements 16.	(AH) 93 56 58 .2 30	

Battery Distribution Chart

Shows amp-hour distribution of your selections.



Comments

- 1. Batteries will fit in the FACP cabinet.
- 2. Selected battery size meets secondary load requirements.
- 3. The selected batteries (18AH) are within the charger range of this power supply (7-18AH).

Spare Battery Capacity	1.70	Battery Selection (AH) - Secondary Load Requirements (AH)
Secondary Standby Load	15.51	Secondary Standby Load (AH) * Derating Factor
Secondary Alarm Load	0.79	Secondary Alarm Load (AH) * Derating Factor

NOTIFIER[®] by Honeywell

Device Current Draw

NFW2-100 Fire Alarm Control Panel

Quantity x [device current draw] = total current draw per device (in amps)

Part Number	Otv	Primary Non-Alarm	Primary Alarm	Secondary Non-Alarm
Main Circuit Board	1	$\times [0.00000] = 0.00000$	x [0.00000] = 0.00000	x [0.14500] = 0.14500
XRM-24B	1	x [0.00000] = 0.00000	x [0.00000] = 0.00000	x [0.00000] = 0.00000
N-ANN-RLY	1	x [0.01500] = 0.01500	x [0.07500] = 0.07500	x [0.01500] = 0.01500
FDU-80	1	x [0.06400] = 0.06400	x [0.06400] = 0.06400	x [0.02500] = 0.02500
NP-100	45	x [0.00030] = 0.01350	x [0.00000] = 0.00000	x [0.00030] = 0.01350
NH-100	3	x [0.00030] = 0.00090	x [0.00000] = 0.00000	x [0.00030] = 0.00090
NMM-100	12	x [0.00040] = 0.00480	x [0.00000] = 0.00000	x [0.00040] = 0.00480
NMM-100P	6	x [0.00038] = 0.00225	x [0.00000] = 0.00000	x [0.00038] = 0.00225
N100-ISO	6	x [0.00045] = 0.00270	x [0.00000] = 0.00000	x [0.00045] = 0.00270
NOT-BG12LX	15	x [0.00023] = 0.00345	x [0.00000] = 0.00000	x [0.00023] = 0.00345
NC-100	1	x [0.00039] = 0.00039	x [0.00000] = 0.00000	x [0.00039] = 0.00039
NC-100R	9	x [0.00027] = 0.00243	x [0.00000] = 0.00000	x [0.00027] = 0.00243
Max Alarm Draw - All Addressable Devic	1	x [0.00000] = 0.00000	x [0.40000] = 0.40000	x [0.00000] = 0.00000
Total (Amp	eres):	0.1094 A	3.6590 A	0.2154 A

Part Number	Qty	Secondary Alarm
Total Primary Alarm Load - C2	1	x [3.65900] = 3.65900
Main Circuit Board	1	x [0.27500] = 0.27500
Total (Amperes):		3.9340 A