FIRE-LITE ALARMS
by Honeywell

MS-5UD-3 Battery Calculations

Note 1: You can edit all current draws and are **fully responsible for verifying** these calculations.
Note 2: You only need to make entries in the **yellow** cells.

	Primary Non-Alarm (Amps)				Primary Alarm (Amps)				Secondary Non-Alarm (Amps)			
Device Type	**Qty**		**Current Draw**	**Total**	**Qty**		**Current Draw**	**Total**	**Qty**		**Current Draw**	**Total**
1. System												
Main Circuit Board	1	x	0.08000	0.08000	1	x	0.11200	0.11200	1	x	0.08000	0.08000
ANN-LED	0	x	0.02800		0	x	0.06800		0	x	0.02800	
4XTMF	0	x	0.00500		0	x	0.01100		0	x	0.00500	
CAC-5X	0	x	0.00100		0	x	0.00100		0	x	0.00100	
2. Annunciators												
ANN-80	0	x	0.03700		0	x	0.04000		0	x	0.01500	
ANN-I/O	0	x	0.03500		0	x	0.20000		0	x	0.03500	
ANN-I/O LEDs	0	x	0.00000		0	x	0.01000		0	x	0.00000	
ANN-S/PG	0	x	0.04500		0	x	0.04500		0	x	0.04500	
3. Resettable Power												
2-wire Detector Heads	0	x	0.00000		0	x	0.00000		0	x	0.00000	
4-Wire Detector Heads	0	x	0.00000		0	x	0.00000		0	x	0.00000	
Power SuperVision Relays	0	x	0.02500		0	x	0.02500		0	x	0.02500	
4. Notification Appliances												
NAC #1					0	x	0.00000					
NAC #2					0	x	0.00000					
NAC #3					0	x	0.00000					
NAC #4					0	x	0.00000					
TB9 (Non)Resettable (Term 1+2)	0	x	0.00000		0	x	0.00000		0	x	0.00000	
TB9 Resettable (Term 3+4)	0	x	0.00000		0	x	0.00000		0	x	0.00000	
Sum each column for totals			**Total Current**	**0.08000**			**Total Current**	**0.11200**			**Total Current**	**0.08000**

MS-5UD-3 Secondary Battery Calculations

Note: You can edit all current draws and are **fully responsible for verifying** these calculations. Only enter values in **yellow** cells.

			Required Standby Time		
Secondary Non-Alarm Load (Amps)	**0.080 A**	x	24 Hours	=	**1.92 AH**
			Required Alarm Time		
			5 Minutes		
Secondary Alarm Load (Amps)	**0.112 A**	x	0.084	=	**0.01 AH**
				Standby and Alarm Load Subtotal	**1.93 AH**
				Derating Factor	x 1.2
				Total Ampere Hours Required	**2.32 AH**

Battery Check
The batteries can be housed in the MS-5UD-3 cabinet
An external battery charger is not required for this system

Current Draw Check
NAC#1 current is within the limitations of the circuit.
NAC#2 current is within the limitations of the circuit.
NAC#3 current is within the limitations of the circuit.
NAC#4 current is within the limitations of the circuit.
TB9 (Non)Resettable Power (Terminals 1+2) is within the limitations of the circuit.
TB9 Resettable Power (Terminals 3+4) is within the limitations of the circuit.
The standby current is within the limitations of the panel.
The alarm current is within output limitations of the panel.