



**SILENT
KNIGHT**

SK-5208 Calculations
Version 02.26.09

Global Project Values:

Project Name: CITC

Project ID: 90075

Prepared By: RED HAWK FIRE PROTECTION

Date: 8/31/2023

Standby Hours: 24

Alarm Mins: 5

Derating Factor: 1.2

Voltage Drop Warning
Threshold % : 10

Panel ID: SK-5208

Location: RISER - EXISTING

Model: SK-5208 Fire Alarm Control Panel

Volts: 24 VDC

Max NAC Current: 3.0 Amps

Max Panel Current: 6.0 Amps

Ckt.#	Circuit Name	Qty	Current Standby	Draw Alarm	Wire AWG & Type	Ohms Per 1000 Ft.	Length(ft) One-Way	Actual Ohms	Volts @ EOL	%Drop	
SK-5208	SK-5208 Main Control	1	0.140	0.550	NA						
SK-5217	SK-5217 Zone Expdr		0.000	0.000							
SK-5235	SK-5235 LCD Remote		0.000	0.000							
SK-5280	SK-5280 Display Mod		0.000	0.000							
SK-5220	SK-5220 Dir Con Mod		0.000	0.000							
SK-7181	SK-7181 Zn Cnvtr		0.000	0.000							
IDC-1	Initiating Device Ckt 1		0.002	NA**							
IDC-2	Initiating Device Ckt 2		0.000	NA**							
IDC-3	Initiating Device Ckt 3		0.000	NA**							
IDC-4	Initiating Device Ckt 4		0.000	NA**							
IDC-5	Initiating Device Ckt 5		0.000	NA**							
IDC-6	Initiating Device Ckt 6		0.000	NA**							
IDC-7	Initiating Device Ckt 7		0.000	NA**							
IDC-8	Initiating Device Ckt 8		0.000	NA**							
IDC-9	Initiating Device Ckt 9		0.000	NA**							
IDC-10	Initiating Device Ckt 10		0.000	NA**							
IDC-11	Inactive, Add SK-5217		0.000	NA**							
IDC-12	Inactive, Add SK-5217		0.000	NA**							
IDC-13	Inactive, Add SK-5217		0.000	NA**							
IDC-14	Inactive, Add SK-5217		0.000	NA**							
IDC-15	Inactive, Add SK-5217		0.000	NA**							
IDC-16	Inactive, Add SK-5217		0.000	NA**							
IDC-17	Inactive, Add SK-5217		0.000	NA**							
IDC-18	Inactive, Add SK-5217		0.000	NA**							
IDC-19	Inactive, Add SK-5217		0.000	NA**							
IDC-20	Inactive, Add SK-5217		0.000	NA**							
IDC-21	Inactive, Add SK-5217		0.000	NA**							
IDC-22	Inactive, Add SK-5217		0.000	NA**							
IDC-23	Inactive, Add SK-5217		0.000	NA**							
IDC-24	Inactive, Add SK-5217		0.000	NA**							
IDC-25	Inactive, Add SK-5217		0.000	NA**							
IDC-26	Inactive, Add SK-5217		0.000	NA**							
IDC-27	Inactive, Add SK-5217		0.000	NA**							
IDC-28	Inactive, Add SK-5217		0.000	NA**							
IDC-29	Inactive, Add SK-5217		0.000	NA**							
IDC-30	Inactive, Add SK-5217		0.000	NA**							
NAC-1	Notification Appl Ckt 1		0.000	0.000	#12 Solid	1.59		0.00	20.40	0.00%	
NAC-2	Notification Appl Ckt 2		0.000	0.000	#12 Solid	1.59		0.00	20.40	0.00%	
NAC-3	Notification Appl Ckt 3		0.000	0.000	#12 Solid	1.59		0.00	20.40	0.00%	
NAC-4	Notification Appl Ckt 4		0.000	0.000	#12 Solid	1.59		0.00	20.40	0.00%	
Aux	Aux Power Out		0.000	0.000	#12 Solid	1.59		0.00	20.40	0.00%	
Total Standby Current (Amps)			0.142	0.550	Total Alarm Current (Amps)						
Standby Time In Hours			24	0.083	Alarm Time In Minutes / 60			(5 Mins)			
Total Standby AH Required			3.410	0.046	Total Alarm AH Required						
Total Combined AH Required				3.46		Command Shortcuts					
Multiply By The Derating Factor				1.20							
Minimum Battery AmpHours Required				4.15		Configure Circuits		Print Page			

** The SK-5208 and SK-5217 limits alarm current to 95mA per zone. The SK-5208 alarm current includes 10% of system zones in alarm, but in no case less than three zones per UL 864.