

Circuit Calculations Panel: P1 Card: 00 Circuit:M2

CircuitName: M2
 Circuit Type: Signaling line/Addressable Terminal Voltage: 24V:DC Amperage: 1.0000A
 Cable: Power, Limited, Addressable system data grade #16
 Calculations based on Running Total Length.
 Design Criteria: Ambient temperature: 167°F Max. operating voltage drop: 10%
 Job number: 1 Job name: Drawing2

Device	Part No	Appliance Desc	Distance	Current	Voltage	Voltage Drop
	5820 XL	Panel			24V	
D:001		Appliance missing from database: ItemCode=332600004, ItemSize=1	22'-0	0.0300mA	23.9946V	(0.0054V)
M:001	SD500-ARM	SD500-ARM Addressable Relay Module	5'-0	0.5500mA	23.9934V	(0.0012V)
D:002	SD500-PS	SD500-PS Addressable Pull-Station	19'-0	0.5500mA	23.9888V	(0.0046V)
D:003	SD505 APS	Model SD505-APS Addressable Photoelectric Type Smoke Detector	293'-0	0.5500mA	23.92V	(0.0688V)
D:004	SD505 APS	Model SD505-APS Addressable Photoelectric Type Smoke Detector	12'-0	0.5500mA	23.9173V	(0.0027V)
D:005	SD505 APS	Model SD505-APS Addressable Photoelectric Type Smoke Detector	34'-0	0.5500mA	23.9097V	(0.0076V)
D:006	SD505 APS	Model SD505-APS Addressable Photoelectric Type Smoke Detector	26'-0	0.5500mA	23.904V	(0.0057V)
D:007	SD505 APS	Model SD505-APS Addressable Photoelectric Type Smoke Detector	53'-0	0.5500mA	23.8928V	(0.0113V)
D:008	SD505 APS	Model SD505-APS Addressable Photoelectric Type Smoke Detector	84'-0	0.5500mA	23.8754V	(0.0174V)
D:009	SD505 APS	Model SD505-APS Addressable Photoelectric Type Smoke Detector	32'-0	0.5500mA	23.8689V	(0.0064V)
D:010	SD505 APS	Model SD505-APS Addressable Photoelectric Type Smoke Detector	30'-0	0.5500mA	23.8631V	(0.0059V)
D:011	SD505 APS	Model SD505-APS Addressable Photoelectric Type Smoke Detector	43'-0	0.5500mA	23.8549V	(0.0082V)
D:012	SD505 APS	Model SD505-APS Addressable Photoelectric Type Smoke Detector	31'-0	0.5500mA	23.8492V	(0.0057V)
D:013	SD505 APS	Model SD505-APS Addressable Photoelectric Type Smoke Detector	56'-0	0.5500mA	23.8392V	(0.01V)
D:014	SD505 APS	Model SD505-APS Addressable Photoelectric Type Smoke Detector	50'-0	0.5500mA	23.8305V	(0.0087V)
D:015	SD505 APS	Model SD505-APS Addressable Photoelectric Type Smoke Detector	21'-0	0.5500mA	23.827V	(0.0035V)
D:016	SD505 APS	Model SD505-APS Addressable Photoelectric Type Smoke Detector	19'-0	0.5500mA	23.8239V	(0.0031V)
D:017	SD505-AHS	Model SD505-AHS Addressable Heat Detector	24'-0	0.5500mA	23.8202V	(0.0038V)
D:018	SD505-AHS	Model SD505-AHS Addressable Heat Detector	17'-0	0.5500mA	23.8176V	(0.0026V)
D:019	SD500-PS	SD500-PS Addressable Pull-Station	11'-0	0.5500mA	23.816V	(0.0016V)
M:002	SD500-MIM	Mini Module	33'-0	0.5500mA	23.8114V	(0.0046V)
D:020	SD-505-ADHR	SD-505-ADHR Duct Detector Housing with Relay	10'-0	0.0000mA	23.8101V	(0.0013V)
D:021	SD-505-ADHR	SD-505-ADHR Duct Detector Housing with Relay	9'-0	0.0000mA	23.8088V	(0.0012V)
D:022	SD505 APS	Model SD505-APS Addressable Photoelectric Type Smoke Detector	25'-0	0.5500mA	23.8055V	(0.0034V)
D:023	SD505 APS	Model SD505-APS Addressable Photoelectric Type Smoke Detector	23'-0	0.5500mA	23.8025V	(0.003V)
D:024	SD505 APS	Model SD505-APS Addressable Photoelectric Type Smoke Detector	41'-0	0.5500mA	23.7975V	(0.005V)
D:025	SD505 APS	Model SD505-APS Addressable Photoelectric Type Smoke Detector	42'-0	0.5500mA	23.7926V	(0.0049V)
D:026	SD505-AHS	Model SD505-AHS Addressable Heat Detector	33'-0	0.5500mA	23.7889V	(0.0037V)
D:027	SD505-AHS	Model SD505-AHS Addressable Heat Detector	29'-0	0.5500mA	23.7858V	(0.0031V)
M:003	SD500-MIM	Mini Module	30'-0	0.5500mA	23.7828V	(0.003V)
D:028	SD500-PS	SD500-PS Addressable Pull-Station	47'-0	0.5500mA	23.7783V	(0.0045V)
D:029	SD505 APS	Model SD505-APS Addressable Photoelectric Type Smoke Detector	62'-0	0.5500mA	23.7728V	(0.0055V)
D:030	SD500-PS	SD500-PS Addressable Pull-Station	33'-0	0.5500mA	23.77V	(0.0028V)
D:031	SD500-PS	SD500-PS Addressable Pull-Station	27'-0	0.5500mA	23.7679V	(0.0021V)
D:032	SD505 APS	Model SD505-APS Addressable Photoelectric Type Smoke Detector	28'-0	0.5500mA	23.7659V	(0.002V)
D:033	SD505-AHS	Model SD505-AHS Addressable Heat Detector	62'-0	0.5500mA	23.7617V	(0.0042V)
D:034	SD505-AHS	Model SD505-AHS Addressable Heat Detector	35'-0	0.5500mA	23.7596V	(0.0022V)
D:035	SD505 APS	Model SD505-APS Addressable Photoelectric Type Smoke Detector	53'-0	0.5500mA	23.7566V	(0.003V)
D:036	SD505-AHS	Model SD505-AHS Addressable Heat Detector	44'-0	0.5500mA	23.7544V	(0.0022V)
D:037	SD500-PS	SD500-PS Addressable Pull-Station	27'-0	0.5500mA	23.7532V	(0.0012V)
D:038	SD505-AHS	Model SD505-AHS Addressable Heat Detector	10'-0	0.5500mA	23.7528V	(0.0004V)
D:039	SD505-AHS	Model SD505-AHS Addressable Heat Detector	19'-0	0.5500mA	23.7521V	(0.0006V)
D:040	SD500-PS	SD500-PS Addressable Pull-Station	39'-0	0.5500mA	23.7511V	(0.0011V)
M:004	SD500-MIM	Mini Module	22'-0	0.5500mA	23.7506V	(0.0005V)
M:005	SD500-MIM	Mini Module	3'-0	0.5500mA	23.7505V	(0.0001V)
M:006	SD500-MIM	Mini Module	3'-0	0.5500mA	23.7505V	(0V)
M:007	SD500-MIM	Mini Module	2'-0	0.5500mA	23.7505V	(0V)
			1673'-0	24.2300mA		
Total Current: 24.2300mA						
(Total VDrop Percent:1.04%) Total Voltage Drop : 0.2495V						

Circuit Calculations Panel: P1 Card: 00 Circuit:SBUS

CircuitName: SBUS
 Circuit Type: Serial/S-BUS Terminal Voltage: 20.2V:DC Amperage: 1.0000A
 Cable: Power, Limited, Multiple Conductor #18
 Calculations based on Running Total Length.
 Design Criteria: Ambient temperature: 167°F Max. operating voltage drop: 10%
 Job number: 1 Job name: Drawing2

Device	Part No	Appliance Desc	Distance	Current	Voltage	Voltage Drop
	5820 XL	Panel				
M:001	5860R	5860R Remote Annunciator	215'-0	0.0200mA		
M:002	5860R	5860R Remote Annunciator	83'-0	0.0200mA		

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 494 S. Atlantic Ave.
 Cocoa Beach, Florida 32931

Project Name
Project Address
City, State Zip Code
Fire Alarm Battery Calculations

DRAWN:
Daniel Conte
 CHECKED:
xx/xx/xxxx
 DATE:
xx/xx/xxxx
 SCALE:
NTS
 JOB NUMBER:
xxxxx