

SYMBOL	DESCRIPTION	PART NUMBER	MODEL	QUANTITY
[Symbol]	SPEAKER/STROBE, M.C. WALL, WH	SPKSTR-24VLPW	SPKSTR-24VLPW	6
[Symbol]	STROBE, M.C. RED, WALL	S-24WR	489010	4
[Symbol]	HORN/STROBE, 2 WIRE, M.C. RED, WALL	HS-24WR	489030	6
[Symbol]	HORN/STROBE, 2 WIRE, M.C. RED, WALL	HS-24WR	489030	2
[Symbol]	PULL STATION, SINGLE ACTION, ADDRESSABLE	APS-SA	APS-SA	6
[Symbol]	PHOTO SMOKE DETECTOR	PSA	PSA	1
[Symbol]	MONITOR MODULE	MCM	MCM	1
[Symbol]	DUAL INPUT CONTACT MODULE	ICM-4	ICM-4	1
[Symbol]	FACP, ADDRESSABLE, 18 PT	PFC-6075	PFC-6075	1
[Symbol]	25 WATT 1 CIRCUIT VOICE EVAC PANEL	PVX-25	PVX-25	1
[Symbol]	SPEAKER/STROBE, M.C. WALL, RED	SPKSTR-24VLPW	SPKSTR-24VLPW	1

Part No.	Qty	Description	Standby	Total Standby	Alarm	Total Alarm
Panel Equipment						
PFC-6075	1	FACP ADDRESSABLE, 18 PT	130.0000mA	130.0000mA	230.0000mA	230.0000mA
UD-1000	1	18 DACT	16.0000mA	16.0000mA	23.0000mA	23.0000mA
Total Panel Standby			146.0000mA	146.0000mA	243.0000mA	243.0000mA
Peripheral Devices						
PVX-25	1	25 WATT 1 CIRCUIT VOICE EVAC PANEL, PVX-25_MB (Notification)	0.4000mA	0.4000mA	0.4000mA	0.4000mA
SPKSTR-24VLPW	6	SPEAKER/STROBE, M.C. WALL, WH (Notification)	0.0000mA	0.0000mA	96.0000mA	576.0000mA
HS-24WR	8	HORN/STROBE, 2 WIRE, M.C. RED, WALL (Notification)	0.0000mA	0.0000mA	70.0000mA	420.0000mA
HS-24WR	2	HORN/STROBE, 2 WIRE, M.C. RED, WALL (Notification)	0.0000mA	0.0000mA	88.0000mA	172.0000mA
SPKSTR-24VLPW	1	SPEAKER/STROBE, M.C. WALL, RED (Notification)	0.0000mA	0.0000mA	96.0000mA	96.0000mA
S-24WR	4	STROBE, M.C. RED, WALL (Notification)	0.0000mA	0.0000mA	42.0000mA	168.0000mA
APS-SA	6	PULL STATION, SINGLE ACTION, ADDRESSABLE (Signaling line)	0.3250mA	1.9500mA	0.3250mA	1.9500mA
PSA	1	PHOTO SMOKE DETECTOR (Signaling line)	0.3250mA	0.3250mA	1.2000mA	1.2000mA
MCM	1	MONITOR MODULE (Signaling line)	0.3250mA	0.3250mA	0.3250mA	0.3250mA
ICM-4	1	DUAL INPUT CONTACT MODULE (Signaling line)	0.3250mA	0.3250mA	1.0000mA	1.0000mA
Total Peripheral Standby			3.3250mA	3.3250mA	1438.8750mA	1438.8750mA
Total Standby Amps			149.3250mA	149.3250mA	1679.8750mA	1679.8750mA

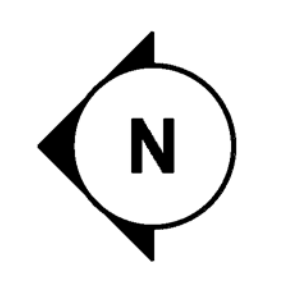
Part No.	Qty	Description	Standby	Total Standby	Alarm	Total Alarm
Panel Equipment						
PVX-25	1	25 WATT 1 CIRCUIT VOICE EVAC PANEL	0.4000mA	0.4000mA	0.4000mA	0.4000mA
Total Panel Standby			0.4000mA	0.4000mA	0.4000mA	0.4000mA
Peripheral Devices						
SPKSTR-24VLPW	6	SPEAKER/STROBE, M.C. WALL, WH (Notification)	0.0000mA	0.0000mA	0.0000mA	0.0000mA
SPKSTR-24VLPW	1	SPEAKER/STROBE, M.C. WALL, RED (Notification)	0.0000mA	0.0000mA	0.0000mA	0.0000mA
Total Peripheral Standby			0.0000mA	0.0000mA	0.0000mA	0.0000mA
Total Standby Amps			0.4000mA	0.4000mA	0.4000mA	0.4000mA
Total Alarm Amps					1230.4000mA	1230.4000mA
Standby time: 24 Hrs					5.5544Ah	
Alarm time: 5 Min					0.1026Ah	
Battery requirement:					5.6569Ah	
Requirement with compensation:					6.7874Ah	

Device Part No.	Appliance Desc	Distance	Current	Voltage	Voltage Drop
FIRE ALARM PANEL					
01	PSA PHOTO SMOKE DETECTOR	9'4"	0.3250mA	20.1980V	(0.0004V)
02	APS-SA PULL STATION, SINGLE ACTION, ADDRESSABLE	20' 0"	0.3250mA	20.1980V	(0.0009V)
03	APS-SA PULL STATION, SINGLE ACTION, ADDRESSABLE	27' 0"	0.3250mA	20.1979V	(0.0010V)
04	APS-SA PULL STATION, SINGLE ACTION, ADDRESSABLE	109' 0"	0.3250mA	20.1940V	(0.0033V)
05	ICM-4 DUAL INPUT CONTACT MODULE	30' 0"	0.3250mA	20.1980V	(0.0009V)
06	ICM-4 DUAL INPUT CONTACT MODULE	109' 0"	0.3250mA	20.1940V	(0.0033V)
07	APS-SA PULL STATION, SINGLE ACTION, ADDRESSABLE	12' 0"	0.3250mA	20.1980V	(0.0007V)
08	APS-SA PULL STATION, SINGLE ACTION, ADDRESSABLE	27' 0"	0.3250mA	20.1979V	(0.0009V)
09	MCM MONITOR MODULE	44' 0"	0.3250mA	20.1972V	(0.0014V)
10	APS-SA PULL STATION, SINGLE ACTION, ADDRESSABLE	89' 0"	0.3250mA	20.1952V	(0.0020V)
Total Current: 2.9250mA					
Total Voltage Drop: 0.0207V					

Circuit Description	Type	Total Len	SPKSTR-24VLPW	SPKSTR-24VLPW	Total Watts	Gauge	Loss	Max Allowable Len
SPK3	Notification	250' 0"	1	0	3.6000W	#14	0.02 dB	491' 11"

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09	MCM MONITOR MODULE	44' 0"	0.3250mA	20.1972V	(0.0014V)
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Total Current: 2.9250mA					
Total Voltage Drop: 0.0207V					

Circuit Description	Type	Total Len	SPKSTR-24VLPW	SPKSTR-24VLPW	Total Watts	Gauge	Loss	Max Allowable Len
SPK4	Notification	250' 0"	1	0	3.6000W	#14	0.02 dB	491' 11"



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REVISION 1:
 7/19/2017 11:42:16 AM
 REVISION 2:
 7/19/2017 11:42:16 AM
 REVISION 3:
 7/19/2017 11:42:16 AM

Eiks Lodge
 1945 Congress St
 Portland ME 04102
 Calculation

DESIGNED BY:
 Bennett Engineering

DATE:
 7/31/16

JOB NUMBER:
 1034

SHEET NUMBER:
 FA-3 Calculation