Johnson Controls Fire Protection 11019 Strang Line Road Lenexa, Kansas 66215 (913) 894-0010 www.JohnsonControls.com



RE: Saint Lukes East Lees Summit 100 Northeast St. Lukes BI Lees Summit, MO 64086

The following changes were made to the Fire Alarm Drawings: Added Battery Calculations

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SLE NUCLEAR MEDICINE SPECT CT

FIRE ALARM SYSTEM

FIRE ALARM SYMBOL LEGEND

UPON REQUEST.

DESCRIPTION	BRAND	MODEL	BACKBOX	WIRE TYPE
EVICES				
ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR W/ STANDARD	SIMPLEX	4098-9714 HEAD	4" OCT 1 1/2" D	М
BASE		4098-9792 BASE	4 OCT, 1-1/2 D	
ADDRESSABLE PHOTOELECTRIC SMOKE SENSOR W/ 4-WIRE RELAY	SIMPLEX	4098-9714 HEAD		М
BASE		4098-9791 BASE	4 OCT, 1-1/2 D	Р
SUPERVISED RELAY	SIMPLEX	2098-9737	MOUNTS IN BASE BOX	R
N APPLIANCES ** TAP ALL SPEAKERS AT 70.7 VOLTS **				
		EVICTING		S
FEARENSTRODE, WALL, RED, TIRE	SIVIPLEA	EVISTING	EXISTING BACKBOX	
		EVISTING		A
	SIVIPLEA	EVISTING	EAISTING BACKDUA	

			ACCEPTABLE CABLE TYPES							
FI	RE ALARM \	VIRE LEG	GEND						00R **	
C	IRCUIT DESCRIPTION	CONSTRUCTION	GAUGE	CIRCUIT PROPERTIES	FPLR	FPLP	THHN	TFFN	OUTD	C.I.
Α	ADDRESSABLE NOTIFICATION	UTP SOLID	14 AWG	60pf/ft. MAX CAPACITANCE; 3 twists/ft. MINIMUM	х	Х				
М	IDNET	UTP SOLID	18 AWG	60µF MAX TOTAL LINE CAPACITANCE	x	Х				
Р	POWER	2 COND. SOLID 14 AWG			x	Х	Х	Х		
R	RELAY	2 COND. SOLID	14 AWG		x	Х	х	х		
s	AUDIO - SPEAKER	STP SOLID	18 AWG	30pf/ft. MAX CAPACITANCE RECOMMENDED	x	Х				
	CONDUIT SIZE	MAX CONDUCTOR	AREA	CONDUIT SIZE	MA	X CC	NDU	сто	R AR	EA
	1/2"	0.122 SQ. INCI	⊣ *	1-1/4"		0.5	98 S(Q INC	CH*	
	3/4"	ł*	1-1/2"		0.8	14 S(Q INC	CH*		
	1"	0.346 SQ INCH	ł*	2"		1.3	42 S(2 INC	CH*	
	* 40% CONDUIT	FILL PER N.E.C.		STP = SHIELDED TV	/ISTEI	D PAI	R			
ITEN INST THA	ITEMS SUCH AS CAPACITANCE BETWEEN CONDUCTORS AND WIRE GAUGE CAN BE CRUCIAL TO THE CIRCUIT DESIGN OF THIS SYSTEM INSTALLATION. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR SELECTING AND INSTALLING CABLE MANUFACTURER AND MODEL THAT MEETS OR EXCEEDS THE ABOVE REQUIREMENTS. RECOMMENDED CABLE MANUFACTURERS AND MODEL NUMBERS ARE AVAILABLE									



MODIFY EXISTING FIRE ALARM SYS ALL NEW WIRING TO BE CLASS B. VERIFY ALL CIRCUITS, LOADS, AND DOCUMENT INFORMATION ON PLA THE EXISTING FIRE ALARM SYSTEM IS THE CONTRACTOR'S RESPONSIB





APPLICABLE CODES & STAND	ARDS	JOHNSON CONTR	ROLS CONTACTS
INTERNATIONAL BUILDING CODE (IBC), 2018 EDITION INTERNATIONAL FIRE CODE (IFC), 2018 EDITION NATIONAL FIRE ALARM AND SIGNALING CODE (NFPA 72), 2016 EDITION NATIONAL ELECTRIC CODE (NFPA 70), 2017 EDITION		Sales Representative TODD WHALEN DONALD.TODD.WHALEN@JCI.COM PHONE: 785-249-2200	Drawings Prepared By MARIANO MENDEZ ZAMORA MARIANO.MENDEZ.ZAMORA@JCI. Drawings Reviewed By
OCCUPANCY TYPE(S): SPRIM B BUSINESS GROUP BUILD	IKLER PROTECTION: ING IS FULLY SPRINKLED	CARLA FRATZEL CARLA.FRATZEL@JCI.COM PHONE: 816-490-5229	TIM EUBANKS TIMOTHY.EUBANKS@JCI.COM
SCOPE OF WORK	MO EXISTING DEVICES AS SHOWN ON DRAWINGS.	PROJECT DIRECT	TORY Johnson Controls Distric
ALL NEW WIRING TO BE CLASS B. /ERIFY ALL CIRCUITS, LOADS, AND ADDRESSES INCLUDING EXISTING AND RELOCATE DOCUMENT INFORMATION ON PLANS AND CALCULATIONS.		ST. LUKES HOSPITAL 100 NE SAINT LUKE'S BLVD LEE'S SUMMIT, MO 64086	11019 STRANG LINE ROAD LENEXA, KS 66215 PHONE: 913-894-0010 FAX: 913-894-0020 SERVICE: 913-894-0010
S THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE OWNER THE TIMI	NG OF ANY EXISTING FIRE ALARM SYSTEM DEMOLITION WORK.	ACI/BOLAND, INC 1710 WYANDOTTE KANSAS CITY, MO 64108	Installer SHAW ELECTRIC COMPANY 3600 FULLER AVE KANSAS CITY, MO 64129
ABBREVIATIONS LEGEND		DEVICE TAG LEG	END
AC = ABOVE CEILING AFF = ABOVE FINISHED FLOOR AHJ = AUTHORITY HAVING JURISDICTION ALM = ALARM ANN = ANNUNCIATOR BMS = BUILDING MANAGEMENT SYSTEM C = CEILING MOUNTED CD = CANDELA RATING DET = DETECTOR DGP = DATA GATHERING PANEL E = EXISTING TO REMAIN EOL = END OF LINE EPO = EMERGENCY POWER OFF ER = ELEVATOR RECALL FAA = FIRE ALARM ANNUNCIATOR FACP = FIRE ALARM CONTROL PANEL FATC = FIRE ALARM TERMINAL CABINET FBO = FURNISHED BY OTHERS FCC = FIRE COMMAND CENTER FSD = FIRE SMOKE DAMPER FTR = FIRE ALARM TRANSPONDER H = HIGH HUMIDITY HT = HEIGHT HVAC = HEATING VENTILATION & AIR CONDITIONING IMS = INFORMATION MANAGEMENT SYSTEM MAX = MAXIMUM MIN = MINIMUM N/A = NOT APPLICABLE NAC = NOTIFICATION APPLIANCE CIRCUIT NDU = NETWORK DISPLAY UNIT	NEC = NATIONAL ELECTRIC CODE NFPA = NATIONAL FIRE PROTECTION ASSOCIATION NIC = NOT IN CONTRACT NPU = NETWORK PROCESSING UNIT NTS = NOT TO SCALE PAP = PRE-ACTION PANEL RC = EXISTING TO REMOVE AND COVER RD = EXISTING DEVICE TO BE RELOCATED RL = RELOCATED DEVICE RR = REMOVE EXISTING & REPLACE WITH NEW SCC = STATUS COMMAND CENTER SLC = SIGNALING LINE CIRCUIT SMK = SMOKE SUPV = SUPERVISORY TAC = TRUEALERT ADDRESSABLE CONTROLLER TOS = TOP OF SHAFT TRBL = TROUBLE TS = TAMPER SWITCH TYP = TYPICAL UON = UNLESS OTHERWISE NOTED VCC = VOICE COMMAND CENTER VT = VALVE TAMPER W = WATTAGE W = WITH W/O = WITHOUT WF = WATERFLOW WG = WIRE GUARD WP = WEATHERPROOF XP = EXPLOSION PROOF	PANEL D - FA: - #:= - T#: - #:T# - #:T# - #:T# - #:T# - #:T# - ## -	ESIGNATOR = FACP (NON-NETWORK) NODE NUMBER = TRANSPONDER NUMBER # = NODE:TRANSPONDER NUMBER = NAC EXTENDER NUMBER DOOR HOLDER NUMBER = DOOR HOLDER CIRCUIT NUMBER = DOOR HOLDER CIRCUIT NUMBER = DOOR HOLDER CIRCUIT NUMBER = NAC EXTENDER CIRCUIT NUMBER = NONET LOOP NUMBER = POWER CIRCUIT NUMBER = SPEAKER CIRCUIT NUMBER = VISUAL CIRCUIT NUMBER = ZONE NUMBER MUMBER / ISOLATED LOOP DESIGNATOR: = IDNET ISOLATED LOOP NUMBER = IDNAC BRANCH NUMBER #) = EPR ² NUMBER:BRANCH NUMBER = ADDRESSABLE NOTIFICATION CIRCUIT ENHANCED POWER REPEATER
EXISTING SYSTEM SEQUENCE	OF OPERATIONS		

	SYSTEM OUTPUTS	ACTUATE COMMON ALARM SIGNAL INDICATOR	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE AUDIBLE SUPERVISORY SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE AUDIBLE TROUBLE SIGNAL	ACTUATE APPROPRIATE LOCATION INDICATOR	ACTUATE ALL AUDIBLE EVACUATION SIGNALS	ACTUATE ALL VISIBLE EVACUATION SIGNALS		DISPLAY CHANGE OF STATUS	TRANSMIT ALARM SIGNAL TO SUPERVISING STATION	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION		RELEASE MANGNETICALLY HELD SMOKE DOORS	ACTIVATE INPUT TO NURSE CALL			
		C	TRL	UNIT	ANN	UNC	IATIC	N			NOTI	FICA	TION			FIF	RE S/	AFET	Y CO	NTRO)L
	SYSTEM INPUTS	Α	В	С	D	Е	F	G	Н	Ι	J	Κ	L	М	Ν	0	Ρ	Q	R	S	Т
1	SMOKE SENSOR/DETECTOR	Х	Х					Х	Х	Х		Х	Х								
2	SMOKE SENSOR/DETECTOR BY DOOR HOLDERS	Х	X					X	Х	X		Х	X				Х	X		\vdash	
3	SMOKE SENSOR/DETECTOR IN PATIENT ROOM	X	X					X	X	Х		Х	X							\mid	
4	FIRE ALARM AC POWER FAILURE					Х	X					Х			X					\vdash	
5	FIRE ALARM SYSTEM LOW BATTERY					X	X					X		<u> </u>	X					┢──┤	
6	OPEN CIRCUIT OR GROUND FAULT					X	X					X			X					┝──┨	
(HO	KRERERERATE COMPARIENCE AND MERCEST SHOPSED	UEN	CFC	⊦ OF	'ERA		N)X					Х			X					L	









FA-101C RISER DIAGRAM



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RIPTION	NOTE
E GANG BOX, 2-1/8" (54mm) DEEP - FLUSH MOUNT	BY OTHERS
mm) OCTAGONAL BOX, 1-1/2" (38mm) DEEP, MINIMUM - FLUSH MOUNT	BY OTHERS
mm) SQUARE BOX, 1-1/2" DEEP (MIN) W/ SIMPLEX 4098-9832	BOX BY OTHERS, 4098-9832 ORDERED
ER KIT	SEPARATELY
mm) SQUARE BOX, 1-1/2" DEEP (MIN)	BY OTHERS
GLE GANG COVER PLATE 3/4" (19mm) EXTENSION	BY UTHERS
R ADDITIONAL MOUNTING OPTIONS, DOWNLOAD DATA SHEET 4098-00	19 FROM HTTP://WWW.SIMPLEX-FIRE.COM



			-	0. "	
Qty	Description		Current	Standby	(
1					
1	ES PS Master Controller - English	1	0.2770	0.2770	
4	ES-PS Fan Module		0.0000	0.0000	
3	ES Power Supply Only		0.0680	0.2040	
4	IDNAC Card		0.1240	0.4960	
1	AUDIO CONTROL BOARD - DIGITAL		0.0875	0.0875	
1	MESSAGE EXPANSION BOARD - 32 MINUTES		0.0020	0.0020	
1	DIGITAL 100W AMP,6NAC,120VAC,70V		0.0850	0.0850	
1	BACKUP 100W AMP-220/30/40VAC,70V	3	0.0850	0.0850	
1	8 SW, 16RED/YEL LED MODULE		0.0000	0.0000	
1	64/64 LED/SWITCH CONTROLLER		0.0200	0.0200	
	Pane	l Totals		1.2565	
oliances		Setting			
83	VO APPLIANCE ONLY WALL MT	110	0.0008	0.0664	
	Total IDN	lac Device Current:		0.0664	
	IDNac Current Boost for 29vdc	Regulated Output **			
	Periphera	l Totals		0.0275	
ent draw	included below (See Additional Current Draws):	System Totals*:	Standby	1.5072	l
s current	draw for all included components. See data sheet for details.				
	1 4 1 <t< td=""><td>1 ES PS Master Controller - English 4 ES-PS Fan Module 3 ES Power Supply Only 4 IDNAC Card 1 AUDIO CONTROL BOARD - DIGITAL 1 MESSAGE EXPANSION BOARD - 32 MINUTES 1 DIGITAL 100W AMP,6NAC,120VAC,70V 1 BACKUP 100W AMP-220/30/40VAC,70V 1 BACKUP 100W AMP-220/30/40VAC,70V 1 8 SW, 16RED/YEL LED MODULE 1 64/64 LED/SWITCH CONTROLLER Pane Diances Total IDN 83 VO APPLIANCE ONLY WALL MT Total IDN IDNac Current Boost for 29vdc I Periphera ent draw included below (See Additional Current Draws): a current draw for all included components. See data sheet for details.</td><td>1 ES PS Master Controller - English 1 4 ES-PS Fan Module </td><td>1 ES PS Master Controller - English 1 0.2770 4 ES-PS Fan Module 0.0000 0 3 ES Power Supply Only 0.0680 0 4 IDNAC Card 0.1240 0 1 AUDIO CONTROL BOARD - DIGITAL 0.0875 0 1 AUDIO CONTROL BOARD - JIGITAL 0.0875 0 1 AUDIO CONTROL BOARD - 32 MINUTES 0.0020 0 1 DIGITAL 100W AMP.6NAC,120VAC,70V 0.0850 0 1 BACKUP 100W AMP.220/30/40VAC,70V 3 0.0850 1 64/64 LED/SWITCH CONTROLLER 0.0000 0 1 64/64 LED/SWITCH CONTROLLER 0.0200 0 Setting 3 VO APPLIANCE ONLY WALL MT 110 0.0008 Total IDNac Device Current: IDNac Current Boost for 29vdc Regulated Output ** Peripheral Totals Ent draw included below (See Additional Current Draws): System Totals*: Standby</td><td>1 ES PS Master Controller - English 1 0.2770 0.2770 4 ES-PS Fan Module 0.0000 0.0000 0.0000 3 ES Power Supply Only 0.0680 0.2040 4 IDNAC Card 0.1240 0.4960 1 AUDIO CONTROL BOARD - DIGITAL 0.0875 0.0875 1 MESSAGE EXPANSION BOARD - 32 MINUTES 0.0020 0.0020 1 DIGITAL 100W AMP,6NAC,120VAC,70V 0.0850 0.0850 1 BACKUP 100W AMP.220/30/40VAC,70V 3 0.0850 0.0850 1 8 SW, 16RED/YEL LED MODULE 0.0000 0.0000 0.0000 1 64/64 LED/SWITCH CONTROLLER 0.0200 0.0200 0.0200 Total IDNac Device Current: 0.0664 IDNac Current Boost for 29vdc Regulated Output ** Peripheral Totals 0.0275 Standby 1.5072</td></t<>	1 ES PS Master Controller - English 4 ES-PS Fan Module 3 ES Power Supply Only 4 IDNAC Card 1 AUDIO CONTROL BOARD - DIGITAL 1 MESSAGE EXPANSION BOARD - 32 MINUTES 1 DIGITAL 100W AMP,6NAC,120VAC,70V 1 BACKUP 100W AMP-220/30/40VAC,70V 1 BACKUP 100W AMP-220/30/40VAC,70V 1 8 SW, 16RED/YEL LED MODULE 1 64/64 LED/SWITCH CONTROLLER Pane Diances Total IDN 83 VO APPLIANCE ONLY WALL MT Total IDN IDNac Current Boost for 29vdc I Periphera ent draw included below (See Additional Current Draws): a current draw for all included components. See data sheet for details.	1 ES PS Master Controller - English 1 4 ES-PS Fan Module	1 ES PS Master Controller - English 1 0.2770 4 ES-PS Fan Module 0.0000 0 3 ES Power Supply Only 0.0680 0 4 IDNAC Card 0.1240 0 1 AUDIO CONTROL BOARD - DIGITAL 0.0875 0 1 AUDIO CONTROL BOARD - JIGITAL 0.0875 0 1 AUDIO CONTROL BOARD - 32 MINUTES 0.0020 0 1 DIGITAL 100W AMP.6NAC,120VAC,70V 0.0850 0 1 BACKUP 100W AMP.220/30/40VAC,70V 3 0.0850 1 64/64 LED/SWITCH CONTROLLER 0.0000 0 1 64/64 LED/SWITCH CONTROLLER 0.0200 0 Setting 3 VO APPLIANCE ONLY WALL MT 110 0.0008 Total IDNac Device Current: IDNac Current Boost for 29vdc Regulated Output ** Peripheral Totals Ent draw included below (See Additional Current Draws): System Totals*: Standby	1 ES PS Master Controller - English 1 0.2770 0.2770 4 ES-PS Fan Module 0.0000 0.0000 0.0000 3 ES Power Supply Only 0.0680 0.2040 4 IDNAC Card 0.1240 0.4960 1 AUDIO CONTROL BOARD - DIGITAL 0.0875 0.0875 1 MESSAGE EXPANSION BOARD - 32 MINUTES 0.0020 0.0020 1 DIGITAL 100W AMP,6NAC,120VAC,70V 0.0850 0.0850 1 BACKUP 100W AMP.220/30/40VAC,70V 3 0.0850 0.0850 1 8 SW, 16RED/YEL LED MODULE 0.0000 0.0000 0.0000 1 64/64 LED/SWITCH CONTROLLER 0.0200 0.0200 0.0200 Total IDNac Device Current: 0.0664 IDNac Current Boost for 29vdc Regulated Output ** Peripheral Totals 0.0275 Standby 1.5072

			Standby	Standby	Alarm	Alarm
Battery Set #1 (Cabinet/Charger #1)			Current	Total	Current	Total
Select ALL Power Supplies on this battery set:						
ESPS-1				1.0214		7.6170
ESPS-2				0.0856		2.9810
Amp-1				0.0850		3.8000
			Sub Total	1.1920		14.3980
Additional Current Draws:						
IDNac Current Boost for 29vdc Regulated Output **						4.1391
RUI Connected Periphera	al Device:	s 0	x 0.0035	= 0.0000	x 0.0035	= 0.0000
MAPNET/IDNet Device Address Communication	n Curren	t 196	x 0.000800	= 0.1568	x 0.001000	= 0.1960
			Sub Total	1.3488		18.7331
Spare addressable point capacity	0%	0	x 0.0008	= 0.0000	x 0.001	= 0.0000
			Total	1.3488		18.7331
Standby Time =	24	Hrs	x 1.3488	= 32,3714	Standby Ah	
Alarm Time =	15	Min	0.25 x 18.7331	= 4.6833	Alarm Ah	
				37.0547		
Additional Spare Battery Capacity =	0%		+	0.0000		
			-	37.0547		
Battery Discharge Factor =	20%		+	7.4109		
Minimum Battery Required	2081-92	96 50AH (2x)	-	44.4656		
Battery Supplied	2081-92	96 50AH (2x)				
* System Totals represent total system current requirements. Those currents may	be distril	buted betwee	en multiple battery sets	or power supp	lies as shown above).

** IDNac Current Boost formula: ((29.5 * IDNac Alarm Current) / .92) / 20.4 = Adjusted Current DC-DC Converter Output = 29.5vdc. Terminal Output is 29vdc due to 0.5vdc internal loss. Converter Worst Case efficiency is 92%, 20.4vdc represents battery output in 85% depleted state

			Standby	Standby	Alarm	Alarm
Battery Set #2 (Cabinet/Charger #2)			Current	Total	Current	Total
Select ALL Power Supplies on this battery set:						
ESPS-3				0.0688		0.2090
ESPS-4				0.0896		3.6410
			Sub Total	0.1584		3.8500
Additional Current Draws:						
IDNac Current Boost for 29vdc Regulated Output **				0.0000		2.1072
MAPNET/IDNet Device Address Communicatio	n Current	t 0	x 0.000800	= 0.0000	x 0.001000	= 0.0000
			Sub Total	0.1584		5.9572
Spare addressable point capacity	0%	0	x 0.0008	= 0.0000	x 0.001	= 0.0000
			Total	0.1584		5.9572
Standby Time =	21	Hre	v 0 1581	- 3 8016	Standby Ah	
Alorm Time -	45	 Min	0.05 v 5.0570	- 1 4902	Alorm Ab	
Alarm Time –	15	IVIII	0.20 x 0.9072	- 1.4093		
				5.2909		
Additional Spare Battery Capacity =	0%	_	+	0.0000	-	
				5.2909		
Battery Discharge Factor =	20%		+	1.0582	-	
Minimum Battery Required	2081-927	74 10AH (2x)		6.3491		
Battery Supplied	2081-927	4 10AH (2x)				

Amplifier Wattage	Watts Used	Alarm	Expansion Card?	Avail. Ckts.	Used Ckts.	% Used
100	41.W	3.800A	No	6	5	#####

*Circuit Voltage = 70vrms [Et]														MAXIMUM -	3 dB DROP
				Total	Total	Wire	Est. Ckt.	Wire Res.	Circuit	Speaker	Speaker	Voltage	Watts	Actual	Max Allowable
		Plan	Speaker	Spkrs	Watts	Gauge	Length	Per Foot	Resistance	Current	Resistance	At End	At End	dB Loss	Ckt. Length
SPEAKER CIRCUIT DESCRIPTION		Circuit	Тар	per	[P]		[D] in	[Rw]	[RI=2D*Rw]	[I=P/Et]	[Rs=Et/I]	[Es=(Et*Rs)	[Pe=(Es)	[dB=Log10	[ML=(0.414*Rs)
	Amp #	Number	.5 Watt	Circuit			Feet					/(Rs+Rl)]	^2/Rs]	(Pe/P)*10]	/(2*Rw)]
20 WEST TUNNEL AREA C 5:SIG4	Amp-1	S1	16	16	8. Watts	18ga	560	0.0078	8.702	0.114	612.500	69.019	7.777	12 db	16318 F
20 WEST PENTHOUSE AREA C 5:SIG5	Amp-1	S2	18	18	9. Watts	18ga	630	0.0078	9.790	0.129	544.444	68.763	8.685	15 db	14505 H
20 WEST FIRST FLOOR C 5:SIG6	Amp-1	S3	15	15	7.5 Watts	18ga	525	0.0078	8.159	0.107	653.333	69.137	7.316	11 db	17405 H
20 WEST FIRST FLOOR C 5:SIG7	Amp-1	S4	14	14	Z. Watts	18ga	490	0.0078	<u>7.615</u>	0.100	700.000	69.247	6.850	-,09 db	18649
20 WEST 1FL ADDRESSABLE SPKRS 5:SIG8	Amp-1	\$5	19	19	9.5 Watts	18ga	665	0.0078	10.334	0.136	515.789	68,625	9.130	17 db	13741 H



larm	Total
rrent	Alarm
3210	0.3210
2000	0.8000
0770	0.2310
2300	0.9200
3630	0.3630
0170	0.0170
8000	3.8000
0000	0.0000
0240	0.0240
2120	0.2120
	6.6880
1320	10.9560
	10.9560
<u>.</u>	6.2462
	17.8062
Alarm	24.6902

1	DNET CHANNEL M Address	1 DeviceType	PointType	ADDRESSESINUSE:196(78.4%) SPAREADDRESSES:54(21.6%) Location Description
	M1-1	PHOTO	SMOKE	DIAG 1FL NW PUBLIC CORR 5:M1-1
┢	M1-2 M1-3	PHOTO ADRPUL	VSMOKE PULL	DIAG 1FL CORR AT 1B00C S SIDE 5:M1-2 DIAG 1FL CORR AT 1B00C S SIDE 5:M1-3
	M1-4	RIAM	RELAY	DIAG 1FL C188 AUTO-OPERATOR SHUNT5:M1-4
-	M1-5 M1-6	РНОТО ІАМ	VSMOKE	DIAG 1FL CORR AT 1C92 5:M1-5 DIAG 1FL CORR AT 1C94 5:M1-6
	M1-7	РНОТО	VSMOKE	DIAG 1FL 1C94 IT ROOM 5:M1-7
╞	M1-8 M1-9	РНОТО РНОТО	VSMOKE VSMOKE	DIAG 1FL 1C92 ELECTRICAL RM 5:M1-8 DIAG 1FL CORR AT 1C95 5:M1-9
	M1-10			
╞	M1-11 M1-12	рното	VSMOKE	DIAG 1FL CORR AT 1C183B / FACP 5:M1-12
	M1-12 M1-13	ADRPUL	PULL	DIAG 1FL CORR AT 1C90B 5:M1-13
-	M1-14 M1-15	PHOTO	VSMOKE	DIAG 1FL CORR AT 1C90A 5:M1-14
	M1-15 M1-16	РНОТО	VSMOKE	DIAG 1FL 1C85 RESTROOM 5:M1-16
	M1-17	PHOTO	VSMOKE	DIAG 1FL 1C91B SWITCHGEAR RM 5:M1-17
╞	M1-18 M1-19	РНОТО РНОТО	VSMOKE	DIAG 1FL CORR AT 1C55 RADIOLOG 5:M1-19
F	M1-20	PHOTO	VSMOKE	DIAG 1FL CORR AT 1C154A CT 2 5:M1-20
	M1-21 M1-22	ADRPUL	PULL	DIAG 1FL CORR AT STAIRS 1CS01 5:M1-22
	M1-23	PHOTO	VSMOKE	DIAG 1FL CORR AT 1C57C 5:M1-23
╞	M1-24 M1-25	PHOTO	VSWORE	DIAG IFL AT 1039A 5.1011-24
	M1-26	рното	VSMOKE	DIAG 1FL 1C50 MRI EQUIPMENT RM 5:M1-26
	M1-27 M1-28			
_	M1-29	PHOTO	VSMOKE	
E	M1-30 M1-31	FIIOTO	VSWORL	DIAG IFE TOTSZ ELECTRICAL RIM 5.1WT-50
	M1-32			
_	M1-34			
	M1-35			
	M1-30 M1-37			
	M1-38 M1-39			
	M1-39 M1-40	ADRPUL	PULL	DIAG 1FL CORR AT 1C83 5:M1-40
-	M1-41 M1-42	РНОТО РНОТО	VSMOKE VSMOKE	DIAG 1FL CORR AT 1C183A 5:M1-41
Ľ	M1-43	РНОТО	VSMOKE	DIAG 1FL CORR AT 1C76A 5:M1-43
-	M1-44 M1-45	РНОТО РНОТО	VSMOKE VSMOKE	DIAG 1FL SUB-WAITING AT 1C81 5:M1-44 DIAG 1FL NW PUBLIC CORR 5:M1-45
	M1-46	РНОТО	VSMOKE	DIAG 1FL RM 1C58A 5:M1-46
╞	M1-47 M1-48	РНОТО РНОТО	VSMOKE VSMOKE	DIAG 1FL 1C76C RESTROOM 5:M1-47 DIAG 1FL 1C59 X-RAY ROOM 5:M1-48
Ľ	M1-49		TOMOTAL	
-	M1-50 M1-51	РНОТО РНОТО	VSMOKE VSMOKE	DIAG 1FL CORR AT 1C70 / 1C71A 5:M1-50 DIAG 1FL 1C70 IT ROOM 5:M1-51
	M1-52	РНОТО	VSMOKE	DIAG 1FL N PUBLIC CORR 5:M1-52
╞	M1-53 M1-54	РНОТО РНОТО	VSMOKE VSMOKE	DIAG 1FL 1C71A ULTRASOUND 1 5:M1-53 DIAG 1FL 1C72 RESTROOM 5:M1-54
	M1-55	РНОТО	VSMOKE	DIAG 1FL 1C06 MEN'S RESTROOM 5:M1-55
╞	M1-56 M1-57	РНОТО РНОТО	VSMOKE VSMOKE	DIAG 1FL 1C05 WOMEN'S RESTROOM 5:M1-56 DIAG 1FL CORR AT 1C02 WTG RM 5:M1-57
	M1-58	ADRPUL	PULL	DIAG 1FL CORR AT 1C02 WTG RM 5:M1-58
-	M1-59 M1-60	РНОТО РНОТО	VSMOKE	DIAG 1FL N PUBLIC CORR 5:M1-60
	M1-61	PHOTO	VSMOKE	DIAG 1FL N PUBLIC CORR 5:M1-61
	M1-62 M1-63	рното	VSMOKE	DIAG 1FL NE PUBLIC CORR 5:M1-63
╞	M1-64 M1-65	РНОТО РНОТО	VSMOKE VSMOKE	DIAG 1FL NE PUBLIC CORR 5:M1-64 DIAG 1FL WAITING C102 E 5:M1-65
Ľ	M1-66	РНОТО	VSMOKE	DIAG 1FL WAITING C102 W 5:M1-66
╞	M1-67 M1-68	РНОТО	VSMOKE	DIAG 1FL 1C11 CONSULTATION 2 5:M1-68
	M1-69	РНОТО	VSMOKE	DIAG 1FL CORR AT 1C60B 5:M1-69
╞	M1-70 M1-71	РНОТО РНОТО	VSMOKE	DIAG 1FL 1C60B OLTRASOUND 5:M1-70 DIAG 1FL CORR AT 1C67A 5:M1-71
	M1-72	РНОТО	VSMOKE	DIAG 1FL 1C66 RESTROOM 5:M1-72
	M1-73 M1-74	РНОТО РНОТО	VSMOKE	DIAG 1FL CORR AT 1C64 5:M1-74
r	M1-75	РНОТО РНОТО	VSMOKE	DIAG 1FL RM 1C64 5:M1-75
ł	M1-70 M1-77	РНОТО	VSMOKE	DIAG 1FL HALL BY 1C13A 5:M1-77
F	M1-79	РНОТО РНОТО	VSMOKE	DIAG 1FL 1C13 CONSULTATION 4 5:M1-78
	M1-73 M1-80	РНОТО	VSMOKE	DIAG 1FL 1C09 AT 1C15A 5:M1-80
-	M1-81 M1-82	РНОТО РНОТО	VSMOKE	DIAG 1FL 1C14 CONSULTATION 5 5:M1-81
F	M1-83	РНОТО	VSMOKE	DIAG 1FL COR AT 1C42 5:M1-83
	M1-84	PHOTO	VSMOKE	DIAG 1FL 1C60 RAD. READING RM 5:M1-84
	M1-86	PHOTO	VSMOKE	DIAG 1FL CORR AT 1C00F N SIDE 5:M1-86
╞	M1-87 M1-88	РНОТО	VSMOKE	DIAG 1FL DIAGNSTIC ENTRY C100 5:M1-87
F	M1-89	РНОТО	VSMOKE	DIAG 1FL CORR AT 1C00F S SIDE 5:M1-89
╞	M1-90 M1-91	РНОТО	VSMOKE	DIAG 1FL 1C135 INJECTION RM 5:M1-91
	M1-92	PHOTO	VSMOKE	DIAG 1FL CORR AT 1C36 5:M1-92
Ł	M1-93 M1-94	РНОТО РНОТО	VSMOKE	DIAG 1FL WORK C136 5:M1-93 DIAG 1FL READ 1C101 5:M1-94
	M1-95	РНОТО РНОТО	VSMOKE	DIAG 1FL 1C32 NURSE STATION 5:M1-95
	M1-90 M1-97	РНОТО	VSMOKE	DIAG 1FL 1C33 INFUSION 2 5:M1-97
╞	M1-98 M1-99	РНОТО РНОТО	VSMOKE VSMOKE	DIAG 1FL 1C34 INFUSION 1 5:M1-98
	M1-100			
╞	M1-101 M1-102	RIAM	RELAY	1C152 AHU C-1 SUPPLY DMPR RELAY5:M1-102
	M1-103	RIAM	RELAY	1C152 AHU C-1 RETURN DMPR RELAY5:M1-103
╞	M1-104 M1-105	ADRPUL	PULL	DIAG 1FL WAITING RM AT 1C28A 5:M1-104 DIAG 1FL WAITING RM AT 1C17 5:M1-105
	M1-106	РНОТО	VSMOKE	DIAG 1FL RM 1C121 5:M1-106
F	M1-108			
F	M1-109 M1-110	ΡΗΟΤΟ ΡΗΟΤΟ	VSMOKE VSMOKE	DIAG 1FL LAB DRAW RM 1C20 5:M1-109 DIAG 1FL RESTROOM 1C21 5:M1-110
F	M1-111	РНОТО	VSMOKE	DIAG 1FL UPS ROOM 1C202B 5:M1-111
╞	M1-112 M1-113	РНОТО РНОТО	VSMOKE VSMOKE	DIAG 1FL RM 1C117 5:M1-112 DIAG 1FL 1C17 LAB RECEPTIONIS 5:M1-113
F	M1-114	РНОТО	VSMOKE	DIAG 1FL 1C201 SPCL PRCDR LAB 5:M1-114
┢	M1-115 M1-116	<i>RPHOTO</i> <i>PHOTO</i>	VSMOKE VSMOKE	DIAG 1FL 1C207 SPCL PRCDR LAB 5:M1-115 DIAG 1FL 1C202 SPCL PRCDR LAB 5:M1-116
F	M1-117	РНОТО	VSMOKE	DIAG 1FL WON DOOR 1C00A 5:M1-117
╞	м1-118 M1-119	крното RPHOTO	VSMOKE VSMOKE	DIAG TEL 10202 SPCL PROC BED4 5:M1-118 DIAG 1FL 1C202 SPCL PROC BED3 5:M1-119
F	M1-120	RPHOTO	VSMOKE	DIAG 1FL 1C202 SPCL PROC BED2 5:M1-120
╞	M1-121 M1-122	крното RPHOTO	VSMOKE LSDUCT	DIAG 1FL 10202 SPCL PROC BED1 5:M1-121 DIAG 2FL 2D01 MECH RM C-1 RET 5:M1-122
F	M1-123	PHOTO	VSMOKE	DIAG 1FL 1C205 SOILED UTILITY 5:M1-123
Ļ	M1-124 M1-125	РНОТО РНОТО	VSMOKE VSMOKE	DIAG 2FL 2D01 MECH RM AT DOOR 5:M1-124 DIAG 2FL 2D01 MECH RM 5:M1-125
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THE LABELS ARE BASED UPON INFORMATION SHOWN ON THE ARCHITECTURAL DRAWINGS. ANY CHANGES TO THESE LABELS MUST BE NOTED ON THE SUBMITTAL REVIEW, PRIOR TO PROGRAMMING. POINTS SHOWN IN ITALIC TEXT REFER TO EXISTING DEVICES.

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M1-127	РНОТО	VSMOKE	DIAG 2FL 2D01 MECH RM 5:M1-127	X	X	X	X	X	X 2	X	C
M1-128	РНОТО	VSMOKE	DIAG 1FL 1C202 SPCL PROC LAB 5:M1-128						_)	((
M1-129 M1-130	РНОТО РНОТО	VSMOKE VSMOKE	DIAG 1FL 1C204 STAFF BREAKRM 5:M1-129 DIAG 1FL 1C203 CONTROL ROOM 5:M1-130	X	X	_	\vdash		_	נ נ	() ()
M1-131	РНОТО	VSMOKE	DIAG 1FL 1C203A IT ROOM 5:M1-131	x	X)	, c
M1-132	рното	VSMOKE	DIAG 2FL 2D01 MECH RM AT DOOR 5:M1-132			X		П)	((
M1-133 M1-134	ADRPUL	PULL	DIAG TUNNEL AREA 5:M1-133	X	X	X	<u> </u>	+	\rightarrow	נ נ	() ()
M1-135				X	X	X)	(C
M1-136	рното	VSMOKE	DIAG TUNNEL AREA 5:M1-136				X)	((
M1-137 M1-138	РНОТО РНОТО	VSMOKE	DIAG TUNNEL AREA 5:M1-137	X	Y	<u> </u>	X	\vdash	-+)	
M1-139	РНОТО	VSMOKE	DIAG TUNNEL AREA 5:M1-139	x	X		X)	, ((
M1-140	рното	VSMOKE	DIAG TUNNEL AREA 5:M1-140			X	X)	((
M1-141	PHOTO	VSMOKE	DIAG TUNNEL AREA 5:M1-141	X	v	X	X			<u> </u>	((/ ()
M1-142 M1-143	RIAM	RELAY	DIAG DONNEL AREA 5.M1-142 DIAG DOOR & SECURITY RELAY 5:M1-143	X	X	X	<u>^</u>)	(0
M1-144	RPHOTO	VSMOKE	DIAG 1FL SPCL PRCDR LAB 1C201 5:M1-144					X)	((
M1-145	RPHOTO	VSMOKE	DIAG 1FL SPCL PRCDR LAB 1C201 5:M1-145	X	v	<u> </u>	\vdash	X)	((/ (
M1-140 M1-147	IAM	WSO	DIAG IFL CORR AT 1C90A 5:M1-147	x	^ X	-	\square	^ X			(C
M1-148						X		X)	((
M1-149	RPHOTO	VSMOKE	DIAG 1FL CATH LAB 1C221 RM 5 5:M1-149	X		X		X	_)	((
M1-150 M1-151	RPHOTO	VSMOKE	DIAG 1FL CATH LAB 1C223 RM 6 5:M1-150	x	X X	X X	<u> </u>	X X	_	ر ر	() ()
M1-152							x	X)	((
M1-153	РНОТО	VSMOKE	DIAG 1FL CORR AT 02-1B00W WEST 5:M1-153	X			X	X)	((
M1-154 M1-155	РНОТО РНОТО	VSMOKE	DIAG 1FL CORR AT 1C202 SPL PR 5:M1-154	Y Y	X X		X	X X		ر ر	
M1-156	ADRPUL	PULL	DIAG 1FL AT EXIT 1C00B 5:M1-156			X	X	X)	, ((
M1-157	рното	VSMOKE	DIAG 1FL CORR AT 1C200A 5:M1-157	X		X	X	X	_)	((
M1-158 M1-159				Y	X X	X Y	X	X X) 	
M1-160					~			^	x	,	, ,
M1-161	RPHOTO	LSDUCT	DIAG 1FL WTG RM C-1 SUPPLY 5:M1-161	X					X)	((
M1-162	RPHOTO		DIAG 1FL 1C34 AHU C-1 SUPPLY 5:M1-162	Y	X X	╞	\vdash		X X)	(⁽
M1-164		202007				X			X)	, ,
M1-165				X		X			X)	((
M1-166	РНОТО РНОТО	VSMOKE	DIAG 1FL NE PULBIC CORR CEI 5:M1-166	Y	X Y	X Y	<u> </u>	\vdash	X X)	((/ (
M1-168	РНОТО	VSMOKE	DIAG 1FL 1C50 EQUIP RM U/F 5:M1-168	^	^	^	X		x)	, ((
M1-169				X			X		x)	((
M1-170	PHOTO	VSMOKE	DIAG 1FL WAITING RM CTR 5:M1-170	v	X	<u> </u>	X		X)	((/ (
M1-172	FIIOTO	VSWORL		^	^	X	^ X		X)	(C
M1-173				X		X	X		X)	((
M1-174	IAM		DIAC ELOW 1EL 02 18079 5:M1 175	v	X	X	X		X) 	
M1-175 M1-176	IAM	SO	DIAG FLOW IFL 02-18078 - 5.MT-173 DIAG TS 1FL 02-18078 AFTR BKFLW5:M1-176	^	^	^	<u>^</u>	x	<u>^</u>)	(C
M1-177	IAM	so	DIAG TS 1FL 02-1B078 BEFR BKFLW5:M1-177	X				X	X)	((
M1-178	ADRPUL	PULL	DIAG 1FL STAIR 2C-S01 5:M1-178	v	X	╞		X	X)	(C
M1-179 M1-180				X	X	X	<u> </u>	X	X		(C
M1-181				x		X		x	x)	((
M1-182					X	X		X	X)	(0
M1-183 M1-184	РНОТО	SMOKE	DIAG 1FL HOT LAB 1C37 5:M1-184	X	X	X	x	X	X X)	(C
M1-185				x			X	X	X)	()
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M1-188				^	^	X	X	x	x	,	, (
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M1-189	РНОТО	VSMOKE	DIAG 1FL CATH LAB NURSE STN 5:M1-189	X		X	X	X	X)	(
M1-189 M1-190 M1-191	РНОТО РНОТО РНОТО	VSMOKE VSMOKE VSMOKE	DIAG 1FL CATH LAB NURSE STN 5:M1-189 DIAG 1FL CATH LAB AT EXAM 1 5:M1-190 DIAG 1FL CATH LAB AT 1C226 5:M1-191	X	X	X X X	X X X	X X X	X X X)))	<pre></pre>
M1-189 M1-190 M1-191 M1-192	РНОТО РНОТО РНОТО	VSMOKE VSMOKE VSMOKE	DIAG 1FL CATH LAB NURSE STN 5:M1-189 DIAG 1FL CATH LAB AT EXAM 1 5:M1-190 DIAG 1FL CATH LAB AT 1C226 5:M1-191	X X	х х	X X X	X X X	x x x	x x x	נ ג ג x	<pre></pre>
M1-189 M1-190 M1-191 M1-192 M1-193	РНОТО РНОТО РНОТО	VSMOKE VSMOKE VSMOKE	DIAG 1FL CATH LAB NURSE STN 5:M1-189 DIAG 1FL CATH LAB AT EXAM 1 5:M1-190 DIAG 1FL CATH LAB AT 1C226 5:M1-191	x x x	х х	X X X	x x x	x x x	X X X 2	ע ע ע ג ג ג	<pre></pre>
M1-189 M1-190 M1-191 M1-192 M1-193 M1-194 M1-195	РНОТО РНОТО РНОТО РНОТО	VSMOKE VSMOKE VSMOKE	DIAG 1FL CATH LAB NURSE STN 5:M1-189 DIAG 1FL CATH LAB AT EXAM 1 5:M1-190 DIAG 1FL CATH LAB AT 1C226 5:M1-191 DIAG 1FL CATH CORR AT 1C220 5:M1-195	x x x	x x x x	X X X	X X X	x x x		((((((((((((((
M1-189 M1-190 M1-191 M1-192 M1-193 M1-194 M1-195 M1-196	РНОТО РНОТО РНОТО РНОТО РНОТО РНОТО РНОТО	VSMOKE VSMOKE VSMOKE VSMOKE VSMOKE	DIAG 1FL CATH LAB NURSE STN 5:M1-189 DIAG 1FL CATH LAB AT EXAM 1 5:M1-190 DIAG 1FL CATH LAB AT 1C226 5:M1-191 DIAG 1FL CATH CORR AT 1C220 5:M1-195 DIAG 1FL CORR AT EXIT 1C00B 5:M1-196	x x x x	X X X X	X X X X	x x x			x x x x x x x x x x x x x x x x x x x	
M1-189 M1-190 M1-191 M1-192 M1-193 M1-194 M1-195 M1-196 M1-197	РНОТО РНОТО РНОТО РНОТО РНОТО	VSMOKE VSMOKE VSMOKE VSMOKE VSMOKE	DIAG 1FL CATH LAB NURSE STN 5:M1-189 DIAG 1FL CATH LAB AT EXAM 1 5:M1-190 DIAG 1FL CATH LAB AT 1C226 5:M1-191 DIAG 1FL CATH CORR AT 1C220 5:M1-195 DIAG 1FL CORR AT EXIT 1C00B 5:M1-196	X X X X X	X X X X	X X X X X X X) x x x x x x x x x x x x x x x x x x x	
M1-189 M1-190 M1-191 M1-192 M1-193 M1-194 M1-195 M1-196 M1-197 M1-198 M1-199	РНОТО РНОТО РНОТО РНОТО РНОТО РНОТО	VSMOKE VSMOKE VSMOKE VSMOKE VSMOKE	DIAG 1FL CATH LAB NURSE STN 5:M1-189 DIAG 1FL CATH LAB AT EXAM 1 5:M1-190 DIAG 1FL CATH LAB AT 1C226 5:M1-191 DIAG 1FL CATH CORR AT 1C220 5:M1-195 DIAG 1FL CORR AT EXIT 1C00B 5:M1-196	X X X X X X	X X X X X X X	X X X X X X X X X				x) x) x) x) x) x) x) x) x) x)	
M1-189 M1-190 M1-191 M1-192 M1-193 M1-194 M1-195 M1-196 M1-197 M1-198 M1-199 M1-200	PHOTO PHOTO PHOTO PHOTO PHOTO RIAM	VSMOKE VSMOKE VSMOKE VSMOKE VSMOKE RELAY	DIAG 1FL CATH LAB NURSE STN 5:M1-189 DIAG 1FL CATH LAB AT EXAM 1 5:M1-190 DIAG 1FL CATH LAB AT 1C226 5:M1-191 DIAG 1FL CATH CORR AT 1C220 5:M1-195 DIAG 1FL CORR AT EXIT 1C00B 5:M1-196 DIAG JC ALARM RELAY 5:M1-200	X X X X X X	X X X X X X X	X X X X X X X X X				x) x) x) x) x) x) x) x) x) x)	
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NOTE: THE LABELS SHOWN ABOVE WILL BE USED FOR PROGRAMMING PURPOSES. THE LABELS ARE BASED UPON INFORMATION SHOWN ON THE ARCHITECTURAL DRAWINGS. ANY CHANGES TO THESE LABELS MUST BE NOTED ON THE SUBMITTAL REVIEW, PRIOR TO PROGRAMMING.

POINTS SHOWN IN ITALIC TEXT REFER TO EXISTING DEVICES.



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| 5:3-1
5:3-2
5:3-3
 | DIAG NE AREA
DIAG NW AREA
DIAG TUNNEL AREA
 | |
 | 1.716A
0.792A
1.848A
 | 14.53%
3.77%
16.63%
 | 13
6
14
 | 700
350
750 | 43%
74% | 30%
82%
20%
 | - |
| ES POWER SUPF
 | PLY 1 - IDNAC CARD 1
 | - CIRCUIT 5:3-1 |
 | 1.040A
 | 10.03%
 | 14
 | 750 | 30% | 20%
 | J
VITCH SETTINGS |
| IDNac Addres.
5:3-1-1
5:3-1-2
5:3-1-3
 | s Device Type
 | P. P. | ID
 | Setting
 | Cu
 | stom Label (Ma
 | ox 40 Characters) | | 1
X
X
X
X
X
 | ON
ON
ON |
| 5:3-1-4
5:3-1-5
5:3-1-6
 | V0
V0
V0
 | 49VO-A
49VO-A
49VO-A | APPLW
APPLW
APPLW
 | 110cd
110cd
110cd
 | TOILET C183B
DIAG NE AREA
DIAG NE AREA
 | 5:3-1-4
5:3-1-5
5:3-1-6
 | | | -3-1-4
-3-1-5 X
-3-1-6 X
 | ON ON ON ON ON |
| 5:3-1-7
5:3-1-8
5:3-1-9
 | VO
VO
VO
 | 49VO-A
49VO-A
49VO-A | APPLW
APPLW
APPLW
 | 110cd
110cd
110cd
 | DIAG NE AREA
DIAG NE AREA
DIAG NE AREA
 | 5:3-1-7
5:3-1-8
5:3-1-9
 | | | -3-1-7 X X
-3-1-8
-3-1-9 X
 | ON X ON X ON |
| 5:3-1-10
5:3-1-11
 | VO
VO
 | 49VO-A
49VO-A | APPLW
APPLW
 | 110cd
110cd
 | DIAG NE AREA
DIAG NORTH AREA
 | 5:3-1-10
5:3-1-1
 | 1 | | -3-1-10 X
-3-1-11 X X
 | X ON
X ON |
| 5:3-1-12
5:3-1-13
5:3-1-14
 | V0
V0
V0
 | 49VO-A
49VO-A
49VO-A | APPLW
APPLW
APPLW
 | 110cd
110cd
110cd
 | DIAG NORTH AREA
DIAG NORTH AREA
DIAG NORTH AREA
 | 5:3-1-1
5:3-1-1
5:3-1-1
 | 2
3
4 | | -3-1-12
-3-1-13 X
-3-1-14 X
 | X ON X ON X ON X ON |
| 5:3-1-30
5:3-1-31
 | V0
V0
 | 49VO-A
49VO-A | APPLW
APPLW
 | 110cd
110cd
 | DIAG NE AREA
DIAG NE AREA
Notification SLC D
 | 5:3-1-30
5:3-1-31
 | Voltago Dron | | -3-1-30 X
-3-1-31 X X
 | X X ON X X ON |
|
 | Starting Voltage:
Min. Device Voltage:
Allowable % Drop:
 | 29vdc
23.vdc
20.7% |
 | Primary Wire Gauge
Iome Run Wire Gauge
 | 14ga
2:14ga
 | 34154164 2044
 | Wire Res. Per Ft.
Wire Res. Per Ft. | 0.003070
0.003070 | @ 75° Celsius
@ 75° Celsius
 | |
|
 |
 | | Distance
 |
 |
 | Device
 | Class B Calculat
Current | ons
Voltage | Voltage
 | % Vdrop |
| Branch
1
 | Device #
5:3-1-4
5:3-1-5
 | From
PANEL
5:3-1-4 | (Feet)
100
50
 | PID
49VO-APPLW
 | Setting
110cd
 | Draw
0.1320
0.1320
 | at Device
1.716 | Drop
1.054 | at Device
27.946
 | Wire Lengt
Branch 1: 14.3
Length: 70 |
| 1
1
1
 | 5:3-1-6
5:3-1-7
 | 5:3-1-5
5:3-1-6 | 50
50
50
 | 49VO-APPLW
49VO-APPLW
 | 110cd
110cd
110cd
 | 0.1320
0.1320
0.1320
 | 1.452
1.320 | 0.446 | 27.014
26.609
 | |
| 1
1
1
 | 5:3-1-8
5:3-1-9
5:3-1-10
 | 5:3-1-7
5:3-1-8
5:3-1-9 | 50
50
50
 | 49VO-APPLW
49VO-APPLW
49VO-APPLW
 | 110cd
110cd
110cd
 | 0.1320
0.1320
0.1320
 | 1.188
1.056
0.924 | 0.365
0.324
0.284 | 26.244
25.920
25.637
 | |
| 1
 | 5:3-1-11
5:3-1-12
 | 5:3-1-10
5:3-1-11 | 50
50
 | 49VO-APPLW
49VO-APPLW
 | 110cd
110cd
 | 0.1320
0.1320
 | 0.792
0.660 | 0.243
0.203 | 25.393
25.191
 | |
| 1
1
1
 | 5:3-1-13
5:3-1-14
5:3-1-30
 | 5:3-1-12
5:3-1-13
5:3-1-14 | 50
50
50
 | 49VO-APPLW
49VO-APPLW
49VO-APPLW
 | 110cd
110cd
110cd
 | 0.1320
0.1320
0.1320
 | 0.528
0.396
0.264 | 0.162
0.122
0.081 | 25.029
24.907
24.826
 | |
| 1
 | 5:3-1-31
 | 5:3-1-30 | 50
 | 49VO-APPLW
 | 110cd
 | 0.1320
0.0000
 | 0.132 | 0.041 | 24.786
0.000
 | |
| ES POWER SUPP
 | PLY 1 - IDNAC CARD 1
 | - CIRCUIT 5:3-2 |
 |
 |
 | 0.0000
 | 0.000 | 0.000 | 0.000
0.000
SM
 | VITCH SETTINGS |
| IDNac Addres
5:3-2-1
5:3-2-2
 | s Device Type
 | P P 49VO-A | ID
APPLW
APPL W
 | Setting
110cd
110cd
 | Cu
DIAG NW AREA
 | stom Label (Ma
5:3-2-1
5:3-2-2
 | ox 40 Characters) | |
 | ON ON |
| 5:3-2-2
5:3-2-3
5:3-2-4
 | VO
 | 49VO-A | APPLW
 | 110cd
 | DIAG NW AREA
 | 5:3-2-3
 | | | X X
 | ON ON ON |
| 5:3-2-5
5:3-2-6
5:3-2-15
 |
 | 49VO-A | APPLW
 | 110cd
 | DIAG NW AREA
 | 5:3-2-5
 | | |
 | ON ON X |
| 5:3-2-17
 | 5:3-2
 | 49VO-A | APPLW
 | 110cd
 | BY ELEC ROOM DR
Distributed Load V
 | 1C152 5:3
oltage Drop
 | 3-2-17 | |
 | |
|
 | Min. Device Voltage:
Allowable % Drop:
 | 23.vdc
20.7% |] +
 | Primary Wire Gauge
Iome Run Wire Gauge
 | e: 14ga
e: 14ga
 |
 | Wire Res. Per Ft.
Wire Res. Per Ft. | 0.003070 | @ 75° Celsius
 | |
| Branch
1
1
 | Min. Device Voltage:
Allowable % Drop:
Device #
5:3-2-1
5:3-2-2
 | 23.vdc
20.7%
From
PANEL
5:3-2-1 | Distance
(Feet)
100
50
 | Primary Wire Gauge
Iome Run Wire Gauge
PID
49VO-APPLW
49VO-APPLW
 | 2: 14ga
2: 14ga
Setting
110cd
110cd
 | Device
Draw
0.1320
0.1320
 | Wire Res. Per Ft.
Wire Res. Per Ft.
Class B Calculati
Current
at Device
0.792
0.660 | 0.003070
0.003070
0ns
Voltage
Drop
0.486
0.203 | © 75° Celsius
 | % Vdrop
Wire Leng
Branch 1: 3.
Length: 33 |
| Branch
1
1
1
1
1
1
 | Min. Device Voltage:
Allowable % Drop:
Device #
5:3-2-1
5:3-2-2
5:3-2-3
5:3-2-5
5:3-2-5
5:3-2-15
5:3-2-15
 | 23.vdc
20.7%
From
PANEL
5:3-2-1
5:3-2-2
5:3-2-3
5:3-2-5
5:3-2-5
5:2-2-45 | Distance
(Feet)
100
50
50
50
50
50
 | Primary Wire Gauge
Iome Run Wire Gauge
PID
49VO-APPLW
49VO-APPLW
49VO-APPLW
49VO-APPLW
49VO-APPLW
 | 2: 14ga
2: 14ga
3: 14ga
5: 14ga
14ga
110cd
110cd
110cd
110cd
110cd
110cd
110cd
 | Device
Draw
0.1320
0.1320
0.1320
0.1320
0.1320
0.1320
 | Wire Res. Per Ft.
Wire Res. Per Ft.
Class B Calculati
Current
at Device
0.792
0.660
0.528
0.396
0.264 | 0.003070
0.003070
0ns
Voltage
Drop
0.486
0.203
0.162
0.122
0.081 | © 75° Celsius
© 75° Celsius
Voltage
at Device
28.514
28.311
28.149
28.027
27.946
27.006
 | % Vdrop
Wire Leng
Branch 1: 3.
Length: 3! |
| Branch
1
1
1
1
1
1
1
 | Min. Device Voltage:
Allowable % Drop:
Device #
5:3-2-1
5:3-2-2
5:3-2-3
5:3-2-5
5:3-2-15
5:3-2-17
 | 23.vdc
20.7%
From
PANEL
5:3-2-1
5:3-2-2
5:3-2-3
5:3-2-5
5:3-2-5
5:3-2-15 | Distance
(Feet)
100
50
50
50
50
50
50
 | Primary Wire Gauge
Iome Run Wire Gauge
IOME RUN WIRE GAUGE
49VO-APPLW
49VO-APPLW
49VO-APPLW
49VO-APPLW
49VO-APPLW
 | 2: 14ga
2: 14ga
3: 14ga
14ga
14ga
14ga
110cd
110cd
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 | Device
Draw
0.1320
0.1320
0.1320
0.1320
0.1320
0.1320
0.1320
0.0000
0.0000
 | Wire Res. Per Ft.
Wire Res. Per Ft.
Class B Calculati
Current
at Device
0.792
0.660
0.528
0.396
0.264
0.132
0.000
0.000 | 0.003070
0.003070
0.003070
0.001
0.486
0.203
0.162
0.122
0.081
0.041
0.000
0.000 | © 75° Celsius
© 75° Celsius
Voltage
at Device
28.514
28.311
28.027
27.946
27.906
0.000
0.000
 | % Vdrop
Wire Leng
Branch 1: 3.
Length: 35 |
| Branch
1
1
1
1
1
1
5 POWER SUPP
IDNac Addres
 | Min. Device Voltage: Allowable % Drop: Device # 5:3-2-1 5:3-2-2 5:3-2-3 5:3-2-5 5:3-2-15 5:3-2-17 PLY 1 - IDNAC CARD 1 :s Device Type
 | 23.vdc
20.7%
From
PANEL
5:3-2-1
5:3-2-2
5:3-2-3
5:3-2-5
5:3-2-5
5:3-2-15
-
- CIRCUIT 5:3-3
P | Distance
(Feet)
100
50
50
50
50
50
 | Primary Wire Gauge
Iome Run Wire Gauge
PID
49VO-APPLW
49VO-APPLW
49VO-APPLW
49VO-APPLW
49VO-APPLW
49VO-APPLW
 | 2: 14ga
2: 14ga
3: 14ga
14ga
14ga
14ga
110cd
110cd
110cd
110cd
110cd
110cd
110cd
110cd
110cd
110cd
Cu
 | Device
Draw
0.1320
0.1320
0.1320
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0.0000
 | Wire Res. Per Ft.
Wire Res. Per Ft.
Class B Calculati
Current
at Device
0.792
0.660
0.528
0.396
0.264
0.132
0.000
0.000
0.000 | 0.003070
0.003070
0.003070
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0.162
0.162
0.162
0.162
0.162
0.081
0.041
0.000
0.000 | © 75° Celsius
 | % Vdrop
Wire Leng
Branch 1: 3.
Length: 38 |
| Branch
1
1
1
1
1
5:3-3-1
5:3-3-2
5:2-2-2
 | Min. Device Voltage: Allowable % Drop: Device # 5:3-2-1 5:3-2-2 5:3-2-3 5:3-2-5 5:3-2-15 5:3-2-17 PLY 1 - IDNAC CARD 1 is Device Type VO
 | 23.vdc
20.7%
PANEL
5:3-2-1
5:3-2-2
5:3-2-3
5:3-2-3
5:3-2-5
5:3-2-5
5:3-2-15
-
-
- CIRCUIT 5:3-3
-
-
- QUIT 5:3-3 | Distance
(Feet)
100
50
50
50
50
50
50
10
10
10
10
10
10
10
10
10
10
10
10
10
 | Primary Wire Gauge
Iome Run Wire Gauge
Iome Run Wire Gauge
49VO-APPLW
49VO-APPLW
49VO-APPLW
49VO-APPLW
49VO-APPLW
49VO-APPLW
58tting
110cd
 | 2: 14ga
2: 14ga
2:
14ga
14ga
14ga
110cd
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Draw
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0.1320
0.0000
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0.0000
stom Label (Ma
TROOM 1C66
 | Wire Res. Per Ft.
Wire Res. Per Ft.
Class B Calculati
Current
at Device
0.792
0.660
0.528
0.396
0.264
0.132
0.000
0.000
0.000
0.000
0.000
0.000 | 0.003070
0.003070
0.003070
0.001
0.0020
0.486
0.203
0.162
0.122
0.081
0.041
0.000
0.000
 | © 75° Celsius
© 75° Celsius
Voltage
at Device
28.514
28.311
28.149
28.027
27.946
27.906
0.000
0.000
SW
1
X
X
X
X
X | VITCH SETTINGS |
| Branch
1
1
1
1
1
1
5:3-3-1
5:3-3-2
5:3-3-3
5:3-3-4
5:3-3-5
 | Min. Device Voltage: Allowable % Drop: Device # 5:3-2-1 5:3-2-3 5:3-2-5 5:3-2-15 5:3-2-17 PLY 1 - IDNAC CARD 1 rs Device Type VO
 | 23.vdc
20.7%
PANEL
5:3-2-1
5:3-2-2
5:3-2-3
5:3-2-3
5:3-2-5
5:3-2-15
5:3-2-15
-
- CIRCUIT 5:3-3
-
- P
49VO-A | Distance
(Feet)
100
50
50
50
50
50
50
10
10
APPLW
 | Primary Wire Gauge
Iome Run Wire Gauge
PID
49VO-APPLW
49VO-APPLW
49VO-APPLW
49VO-APPLW
49VO-APPLW
49VO-APPLW
1000
Setting
 | 2: 14ga
2: 14ga
2:
14ga
14ga
110cd
110cd
110cd
110cd
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110c | Device
Draw
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stom Label (Ma
FROOM 1C66
 | Wire Res. Per Ft.
Wire Res. Per Ft.
Class B Calculati
Current
at Device
0.792
0.660
0.528
0.396
0.264
0.132
0.000
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0.000 | 0.003070
0.003070
0.003070
0.001
0.002
0.486
0.203
0.162
0.122
0.081
0.041
0.000
0.000
 | © 75° Celsius | VITCH SETTINGS |
| Branch
1
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 | Min. Device Voltage:
Allowable % Drop:
Device #
5:3-2-1
5:3-2-2
5:3-2-3
5:3-2-5
5:3-2-15
5:3-2-15
5:3-2-17
PLY 1 - IDNAC CARD 1
is Device Type
VO
 | 23.vdc
20.7%
PANEL
5:3-2-1
5:3-2-2
5:3-2-3
5:3-2-5
5:3-2-5
5:3-2-5
5:3-2-15
- CIRCUIT 5:3-3
- PI
49VO-A
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0 | Distance
(Feet)
100
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 | Primary Wire Gauge
dome Run Wire Gauge
dome Run Wire Gauge
49VO-APPLW
49VO-APPLW
49VO-APPLW
49VO-APPLW
49VO-APPLW
49VO-APPLW
19VO-APPLW
1000
 | 2: 14ga
2: 14ga
3:
14ga
14ga
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110cd
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110cd | Device
Draw
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stom Label (Ma
RROOM 1C66
 | Wire Res. Per Ft.
Wire Res. Per Ft.
Class B Calculati
Current
at Device
0.792
0.660
0.528
0.396
0.264
0.132
0.000
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0.000 | 0.003070
0.003070
0.003070
0.001
0.002
0.486
0.203
0.162
0.122
0.081
0.041
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0.000
 | © 75° Celsius | % Vdrop Wire Leng Branch 1: 3. Length: 33 Length: 33 VITCH SETTINGS |
| Branch
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 | Min. Device Voltage:
Allowable % Drop:
Device #
5:3-2-1
5:3-2-2
5:3-2-3
5:3-2-5
5:3-2-15
5:3-2-17
PLY 1 - IDNAC CARD 1
:s Device Type
VO
VO
 | 23.vdc
20.7%
PANEL
5:3-2-1
5:3-2-2
5:3-2-3
5:3-2-5
5:3-2-5
5:3-2-15
 | Distance
(Feet)
100
50
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APPLW
 | Primary Wire Gauge
lome Run Wire Gauge
PID
49VO-APPLW
49VO-APPLW
49VO-APPLW
49VO-APPLW
49VO-APPLW
49VO-APPLW
1000
Setting
 | 2: 14ga
2: 14ga
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110cd | Device
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stom Label (Ma
ROOM 1C66
 | Wire Res. Per Ft.
Wire Res. Per Ft.
Class B Calculati
Current
at Device
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0.396
0.264
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0.000 | 0.003070
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 | © 75° Celsius | % Vdrop Wire Leng Branch 1: 3. Length: 33 VITCH SETTINGS |
| Branch
1
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5:3-3-1
5:3-3-1
5:3-3-2
5:3-3-1
5:3-3-2
5:3-3-3
5:3-3-2
5:3-3-3
5:3-3-5
5:3-3-5
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5:3-3-5
5:3-3-5
5:3-3-5
5:3-3-7
5:3-3-5
5:3-3-10
5:3-3-12
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 | Min. Device Voltage:
Allowable % Drop:
Device #
5:3-2-1
5:3-2-2
5:3-2-3
5:3-2-5
5:3-2-15
5:3-2-17
PLY 1 - IDNAC CARD 1
S Device Type
VO
VO
 | 23.vdc
20.7%
PANEL
5:3-2-1
5:3-2-2
5:3-2-3
5:3-2-5
5:3-2-5
5:3-2-5
5:3-2-15
 | Distance
(Feet)
100
50
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50
50
50
50
10
10
APPLW
 | Primary Wire Gauge
Home Run Wire Gauge
PID
49VO-APPLW
49VO-APPLW
49VO-APPLW
49VO-APPLW
49VO-APPLW
49VO-APPLW
1000
Setting
110cd
 | 2: 14ga
2: 14ga
2:
14ga
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14ga
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5:3-3-10
5:3-3-11
5:3-3-12
5:3-3-14
5:3-3-21
 | Min. Device Voltage:
Allowable % Drop:
Device #
5:3-2-1
5:3-2-2
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5:3-2-15
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PLY 1 - IDNAC CARD 1
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PANEL
5:3-2-1
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 | Min. Device Voltage: Allowable % Drop: Device # 5:3-2-1 5:3-2-3 5:3-2-5 5:3-2-15 5:3-2-17 PLY 1 - IDNAC CARD 1 vs Device Type VO
 | 23.vdc
20.7%
PANEL
5:3-2-1
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Voltage at Device
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Voltage at Device
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5:3-3-1
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5:3-3-26
 | Min. Device Voltage:
Allowable % Drop:
Device #
5:3-2-1
5:3-2-2
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5:3-2-5
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 | Distance
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| Branch 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 | Min. Device Voltage: Allowable % Drop: Device # 5:3-2-1 5:3-2-3 5:3-2-5 5:3-2-15 5:3-2-17 Device Type VO VO <td>23.vdc
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PANEL
5:3-2-1
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</td> <td>Distance
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Voltage at Device
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Voltage at Device
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 | Min. Device Voltage: Allowable % Drop: Device # 5:3-2-1 5:3-2-3 5:3-2-5 5:3-2-15 5:3-2-17 Device Type VO VO <td>23.vdc
20.7%
PANEL
5:3-2-1
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20.7%
PANEL
5:3-2-1
5:3-2-3
5:3-2-3
5:3-2-5
5:3-2-5
5:3-2-15
 | Distance
(Feet) 100 50 50 50 50 50 50 50 50 50 400 APPLW
 | Primary Wire Gauge
lome Run Wire
Gauge
PID
49VO-APPLW
49VO-APPLW
49VO-APPLW
49VO-APPLW
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 | Min. Device Voltage: Allowable % Drop: Device # 5:3-2-1 5:3-2-3 5:3-2-5 5:3-2-15 5:3-2-17 Device Type VO VO <td>23.vdc 20.7% 20.7% PANEL 5:3-2-1 5:3-2-3 5:3-2-5 5:3-2-15 5:3-2-15 -</td> <td>Distance
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 5:3-2-17 Device Type VO
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| Branch 1 5:3-3-3 5:3-3-4 5:3-3-4 5:3-3-4 5:3-3-10 5:3-3-11 5:3-3-13 5:3-3-14 5:3-3-13 5:3-3-14 5:3-3-21 5:3-3-22 5:3-3-23 5:3-3-24 5:3-3-25 5:3-3-26 5:3-3-32 5:3-3-34 5:3-3-33 5:3-3-34 5:3-3-33 5:3-3-33 5:3-3-3-36 <td>Min. Device Voltage: Allowable % Drop: Device # 5:3-2-1 5:3-2-3 5:3-2-5 5:3-2-15 5:3-2-17 5:3-2-17 5:3-2-17 S Device Type VO VO<td>23.vdc 20.7% PANEL 5:3-2-1 5:3-2-3 5:3-2-3 5:3-2-5 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 </td><td>Distance
(Feet) 100 50<</td><td>Primary Wire Gauge PID 49V0-APPLW 49V0-APPLW 49V0-APPLW 49V0-APPLW 49V0-APPLW 49V0-APPLW 49V0-APPLW 49V0-APPLW 19V0-APPLW 49V0-APPLW 19V0-APPLW 19V0-APPLW 19V0-APPLW 10cd 110cd 149VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW</td><td>14ga 14ga 14ga 14ga 110cd 110cd</td><td>Device
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 | Min. Device Voltage: Allowable % Drop: Device # 5:3-2-1 5:3-2-3 5:3-2-5 5:3-2-15 5:3-2-17 5:3-2-17 5:3-2-17 S Device Type VO VO <td>23.vdc 20.7% PANEL 5:3-2-1 5:3-2-3 5:3-2-3 5:3-2-5 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 </td> <td>Distance
(Feet) 100 50<</td> <td>Primary Wire Gauge PID 49V0-APPLW 49V0-APPLW 49V0-APPLW 49V0-APPLW 49V0-APPLW 49V0-APPLW 49V0-APPLW 49V0-APPLW 19V0-APPLW 49V0-APPLW 19V0-APPLW 19V0-APPLW 19V0-APPLW 10cd 110cd 149VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW</td> <td>14ga 14ga 14ga 14ga 110cd 110cd</td> <td>Device
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 | Primary Wire Gauge PID 49V0-APPLW 49V0-APPLW 49V0-APPLW 49V0-APPLW 49V0-APPLW 49V0-APPLW 49V0-APPLW 49V0-APPLW 19V0-APPLW 49V0-APPLW 19V0-APPLW 19V0-APPLW 19V0-APPLW 10cd 110cd 149VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW
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(Feet) 100 50<</td><td>Primary Wire Gauge Image 49V0-APPLW 49V0-APPLW 49V0-APPLW 49V0-APPLW 49V0-APPLW 49V0-APPLW 49V0-APPLW 49V0-APPLW 19V0-APPLW 19V0-APPLW 19V0-APPLW 19V0-APPLW 10cd 110cd 19V0-APPLW 49V0-APPLW 49V0-APPLW<td>14ga 14ga 14ga 14ga 110cd 110cd <td>Device
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(Feet) 100 50<</td> <td>Primary Wire Gauge Image 49V0-APPLW 49V0-APPLW 49V0-APPLW 49V0-APPLW 49V0-APPLW 49V0-APPLW 49V0-APPLW 49V0-APPLW 19V0-APPLW 19V0-APPLW 19V0-APPLW 19V0-APPLW 10cd 110cd 19V0-APPLW 49V0-APPLW 49V0-APPLW<td>14ga 14ga 14ga 14ga 110cd 110cd <td>Device
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| Branch 1 5:3-3-34 5:3-3-4 5:3-3-4 5:3-3-4 5:3-3-10 5:3-3-11 5:3-3-10 5:3-3-11 5:3-3-11 5:3-3-11 5:3-3-12 5:3-3-14 5:3-3-21 5:3-3-22 5:3-3-23 5:3-3-24 5:3-3-25 5:3-3-32 5:3-3-33 5:3-3-33 5:3-3-33 5:3-3-33 5:3-3-3-34 5:3-3-3-36 <td>Min. Device Voltage: Allowable % Drop: 5:3-2-1 5:3-2-3 5:3-2-3 5:3-2-5 5:3-2-17 5:3-2-17 5:3-2-17 Sime PLY 1 - IDNAC CARD 1 is Device Type VO VO</td> <td>23.vdc 20.7% 20.7% PANEL 5:3-2-1 5:3-2-3 5:3-2-3 5:3-2-5 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 </td> <td>Distance
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 | 23.vdc 20.7% 20.7% PANEL 5:3-2-1 5:3-2-3 5:3-2-3 5:3-2-5 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 | Distance
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| Branch 1 5:3-3-3 5:3-3-4 5:3-3-4 5:3-3-5 5:3-3-10 5:3-3-11 5:3-3-12 5:3-3-11 5:3-3-11 5:3-3-11 5:3-3-12 5:3-3-14 5:3-3-21 5:3-3-22 5:3-3-23 5:3-3-23 5:3-3-24 5:3-3-32 5:3-3-32 5:3-3-33 5:3-3-34 5:3-3-33 5:3-3-3-34 5:3-3-3-36
 | Min. Device Voltage: Allowable % Drop: 5:3-2-1 5:3-2-3 5:3-2-5 5:3-2-15 5:3-2-17 5:3-2-17 PLY 1 - IDNAC CARD 1 's Device Type VO VO <t< td=""><td>23.vdc 20.7% 20.7% PANEL 5:3-2-1 5:3-2-3 5:3-2-5 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 -</td><td>Distance
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 | Min. Device Voltage: Allowable % Drop: 5:3-2-1 5:3-2-3 5:3-2-5 5:3-2-15 5:3-2-17
 | 23.vdc 20.7% PANEL 5:3-2-1 5:3-2-3 5:3-2-5 5:3-2-5 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 | Distance
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 | Min. Device Voltage: Allowable % Drop: Device # 5:3-2-1 5:3-2-3 5:3-2-5 5:3-2-15 5:3-2-17 Device Type VO S:3-321
 | 23.vdc 20.7% PANEL 5:3-2-1 5:3-2-3 5:3-2-5 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 5:3-2-15 | Distance
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	SLE NODE	5 - IDNA	C-2 CIRCUIT SUMM	ARY & VOLTAGE L	DROP]
	Circu	;4		Description		Alarm	% Drop	Unit	Wire Length	Spare	Spare VoltageDrop	-
	5:10-1 5:10 2		DIAG PH AREA	Decemption		0.396A	1.26%	3	200	87%	94%	-
	5:10-3		DIAG SE AREA DIAG SOUTH AREA			1.320A	6.29%	9 10	360	56%	70%	
H SETTINGS	ES POWER	R SUPPL	Y 2 - IDNAC CARD 2	- CIRCUIT 5:10-1		•					SN	ITCH SETTINGS
ON	IDNac A 5:10	ddress -1-1	Device Type	e F 49VO-	PID APPLW	Setting 110cd	DIAG PH AREA	Custom Label (N 5:10-1-2	lax 40 Characters) ?		1 X	ON
	5:10 5:10	-1-2 -1-3	V0 V0	49VO- 49VO-	APPLW APPLW	110cd 110cd	DIAG PH AREA DIAG PH AREA	<u> </u>	3		X X	ON ON
		ł	5:10-1	•			Notification SLC	Distributed Loa	d Voltage Drop			
		Λ	Starting Voltage: Iin. Device Voltage: Allowable % Drop:	29vdc 23.vdc 20.7%	н	Primary Wire Gauge ome Run Wire Gauge	2: 14ga 2: 14ga]	Wire Res. Per Ft. Wire Res. Per Ft.	0.003070 0.003070	@ 75° Celsius @ 75° Celsius	
					Distance			Device	Class B Calculati Current	ions Voltage	Voltage	% Vdrop
	Branc	:h	Device #	From	(Feet)	PID	Setting	Draw	at Device	Drop	at Device	Wire Length
	1		5:10-1-1 5:10-1-2	5:10-1-1	50	49VO-APPLW 49VO-APPLW	110cd 110cd	0.1320	0.396	0.243	28.757	Length: 200
(ON	1		5:10-1-3	5:10-1-2	50	49VO-APPLW	110cd	0.1320	0.132	0.041	28.635	<u> </u>
	ES POWER IDNac A	R SUPPL [®] Address	Y 2 - IDNAC CARD 2 Device Type	- CIRCUIT 5:10-2	PID	Setting	(Custom Label (N	lax 40 Characters)		SИ 1	/ITCH SETTINGS
	5:10	-2-1									X	
	5:10	-2-2									x x	
	5:10 5:10	-2-4 -2-5									X	ON ON ON
% Vdrop Wire Length	5:10	-2-6 -2-7	V0 V0	49VO-	APPLW APPLW	110cd 110cd	BLDG C 1FL DRAV	N 1C117 (V5-1))5:10-2-6 :10-2-7			ON ON ON
Branch 1: 14.53%	5:10	-2-8	V0	49V0-	APPLW	110cd	DIAG SE AREA	(V5-1)5:10-2	2-8			X ON
Longui. 700	5:10 5:10-	-2-9 ·2-11	V0 V0	49VO- 49VO-	APPLW	110cd	DIAG SE AREA CVC CORR 1D00	(V5-1)5:10-2 (V5-1)5:10-	2-9 2-11			X ON X ON
	5:10- 5:10-	2-12 2-13	V0 V0	49VO- 49VO-	APPLW APPLW	110cd 110cd	TOILET 1C131 DIAG SE AREA	(V5-1)5:10-2- (V5-2)5:10-2	12 -13		x	X ON X ON
	5:10-	2-14	VO	49VO-	APPLW	110cd	DIAG SE AREA	(V5-2)5:10-2 (V5-2)5:10-2	-14		X	X ON
	5:10-	- <u>2-15</u>	5:10-2	4900-	APPLW	110ca	DIAG SE AREA Distributed Load	(V5-2)5:10-2 Voltage Drop	-15			
			Starting Voltage:	29vdc	7							
		Л	Min. Device Voltage: Allowable % Drop:	23.vdc	и	Primary Wire Gauge	: <u>14ga</u> : 14ga]	Wire Res. Per Ft. Wire Res. Per Ft.	0.003070	@ 75° Celsius @ 75° Celsius	
				20.7 /6		onio Kan Thio Gaugo		J		0.003070		7
					Distance			Device	Class B Calculati Current	ions Voltage	Voltage	% Vdrop
	Branc	:h	Device #	From	(Feet)	PID	Setting	Draw	at Device	Drop	at Device	Wire Length
H SETTINGS	1		5:10-2-6 5:10-2-7	5:10-2-6	35	49VO-APPLW 49VO-APPLW	110cd 110cd	0.1320	1.188 1.056	0.729	28.271 28.044	Length: 380
ON	1	ŧ	5:10-2-8 5:10-2-9	5:10-2-7 5:10-2-8	35	49VO-APPLW 49VO-APPLW	110cd 110cd	0.1320 0.1320	0.924	0.199 0.170	27.845	
ON	1		5:10-2-11	5:10-2-9	35	49VO-APPLW	110cd	0.1320	0.660	0.142	27.533	
	1		5:10-2-12 5:10-2-13	5:10-2-11 5:10-2-12	35	49VO-APPLW 49VO-APPLW	110cd 110cd	0.1320	0.528	0.113	27.420	
ON ON	1		5:10-2-14 5:10-2-15	5:10-2-13 5:10-2-14	35	49VO-APPLW 49VO-APPLW	110cd 110cd	0.1320 0.1320	0.264	0.057	27.278	
								0.0000	0.000	0.000	0.000	
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								0.0000	0.000	0.000	0.000	
	ES POWER	R SUPPL	Y 2 - IDNAC CARD 2	- CIRCUIT 5:10-3							SN	ITCH SETTINGS
	IDNac A	ddress	Device Type	> F	PID	Setting	(Custom Label (N	lax 40 Characters)		1	
% Vdrop	5:10 5:10	-3-1 -3-2	VO	49VO-	APPLW	110cd	DIAG SOUTH ARE	A 5:10-3-	-2		X X	
Wire Length Branch 1: 3.77%	5:10 5:10	-3-3 -3-4	VO VO	49VO- 49VO-	APPLW APPLW	110cd 110cd	HALL 1C197 SPCL HALL 1C197 SPCL	. PRCD LAB 5: . PRCD LAB 5:	:10-3-3 :10-3-4		X X	ON 0N
Length: 350	5:10	-3-5	VO	49VO-	APPLW	110cd	DIAG SOUTH ARE	A 5:10-3-	5		X X	
	5:10	-3-0 -3-7	VO	49V0- 49V0-	APPLW	110cd 110cd	BLDG C 1FL 1C21	7 TOILET 5:10)-3-7		X X	
	5:10 5:10	-3-8 -3-9									X .	X ON X ON
	5:10-	3-10				110cd		A 5:10-	2.17	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		X ON
	5:10	3-20	VO	49VO- 49VO-	APPLW	110cd	DIAG SOUTH ARE	A 5:10-3	3-20			
HSETTINGS	5:10- 5:10-	-3-21 -3-22		49V0- 49V0-	APPLW APPLW	110cd 110cd	DIAG 1FL WORK O DIAG SOUTH ARE	A 5:10-5	-3-21 3-22			
			5:10-3				Distributed Load	Voltage Drop				
ON		,	Starting Voltage: Min_Device Voltage:	29vdc	_	Primary Wire Gauge		1	Wine Dee Der Ef	0.002070]@ 75° Celsius	
			Allowable % Drop:	23.7%	н	ome Run Wire Gauge	: 14ga		Wire Res. Per Fl. Wire Res. Per Fl.	0.003070	@ 75° Celsius	
ON ON									Class B Calculati	ions		1
ON	Brond			From	Distance	DID	Sotting	Device	Current	Voltage	Voltage	% Vdrop Wire Length
	Branc 1	,ıı	Device # 5:10-3-2	PANEL	(Feet) 90	49VO-APPLW	110cd	0.1320	1.320	0.729	28.271	Branch 1: 6.29%
ON ON ON	1		5:10-3-3 5:10-3-4	5:10-3-2 5:10-3-3	30 30	49VO-APPLW 49VO-APPLW	110cd 110cd	0.1320 0.1320	1.188 1.056	0.219 0.195	28.052 27.857	Length: 360
	1		5:10-3-5 5:10-2-6	5:10-3-4	30	49VO-APPLW	110cd	0.1320	0.924	0.170	27.687	
	1		5:10-3-0 5:10-3-7	5:10-3-5 5:10-3-6	30	49VO-APPLW 49VO-APPLW	110cd	0.1320	0.792	0.140	27.341	
(ON (ON	1		5:10-3-17 5:10-3-20	5:10-3-7 5:10-3-17	30 30	49VO-APPLW 49VO-APPLW	110cd	0.1320 0.1320	0.528	0.097	27.322 27.249	
	1		5:10-3-21	5:10-3-20	30	49VO-APPLW	110cd	0.1320	0.264	0.049	27.201	
	1		D:10-3-22	5:10-3-21	30	49VO-APPLW	110cd	0.1320	0.132	0.024	0.000	
(ON (ON								0.0000	0.000	0.000	0.000	
								0.0000	0.000	0.000	0.000	
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				Alarm		Unit	Wire	Spare	Spare		
Circuit		Description		Current	% Drop	Load*	Length	Current	VoltageD	rop	
5:12-1	SPARE	·		0.000A	0.00%	0	0	100%	100%		
5:12-2	FL1 WAITING C102	FL1 WAITING C102			0.28%	1	100	96%	99%		
5:12-3	SPARE			0.000A	0.00%	0	0	100%	100%		
ES POWER SUP	PLY 3 - IDNAC CARD 3	- CIRCUIT 5:12-2									SWITCH
IDNac Addres	s Device Type	e Pli	D	Setting	(Custom Label (I	Max 40 Characters)			1	
5:12-2-1	VO	49VO-A	PPLW	110cd	1FL WAITING C102	2 5:12-2-	1		-12-2-1	X	
	5:12-2				Distributed Load	Voltage Drop					
	Starting Voltage:	29vdc	ן								
	Min. Device Voltage:	23.vdc		Primary Wire Gauge	: 14ga	ן	Wire Res. Per Ft.	0.003070	@ 75° Celsiu	s	
	Allowable % Drop:	20.7%	Ho	me Run Wire Gauge	: 14ga	j	Wire Res. Per Ft.	0.003070	@ 75° Celsiu	S	
							Class B Calculation	ons			7
			Distance			Device	Current	Voltage	Voltage	e	
		-	(Feet)	חומ	Setting	Drow	at Dovico	Dron	at David	~	
Branch	Device #	From	(reet)	FID	ootting	Diaw	albevice	Brop	al Devic	·e	

				Alarm		Unit	Wire	Spare	Spare			
Circuit		Descrij	iption	Current	% Drop	Load*	Length	Current	VoltageDro	ор		
5:13-1	BLDG C FL2 CVC			1.188A	7.55%	9	500	60%	64%			
:13-2	BLDG C FL2 CVC			0.924A	4.89%	7	400	69%	76%			
5:13-3	BLDG C CATH LAB			1.452A	10.76%	11	600	52%	48%			
ES POWER SUPI	PLY 4 - IDNAC CARD 4	- CIRCUIT 5	5:13-1							SW	ITCH SETT	ΓIN
IDNac Addres	s Device Type)	PID	Setting		Custom Label (N	Max 40 Characters)		•	1		
5:13-1-1	VO		49VO-APPLW	110cd	BLDG C 2FL CVC	ELEC RM 2C20	3 5:13-1-1		-13-1-1 >	X		
5:13-1-2	VO		49VO-APPLW	110cd	BLDG C 2FL CVC	HALL 2C202	5:13-1-2		-13-1-2	X		+
5:13-1-3	V0		49VO-APPLW 49VO-APPI W	110cd	BLDG C 2FL CVC	MECH RM 2C201	5:13-1-3 1 5:13-1-4		-13-1-3	^ ^		+
5:13-1-5	VO		49VO-APPLW	110cd	BLDG C 2FL CVC	MECH RM 2C20	1 5:13-1-5		-13-1-5	x		┢
5:13-1-6	VO		49VO-APPLW	110cd	BLDG C 2FL WES	T OFFICE 2C256	6 5:13-1-6		-13-1-6	X		
5:13-1-7	VO		49VO-APPLW	110cd	BLDG C 2FL CVC	MECH RM 2C20	1 5:13-1-7		-13-1-7	X X		
5:13-1-8	VO		49VO-APPLW	110cd	BLDG C 2FL N CC	ORR 2C265 5	5:13-1-8		-13-1-8)	(
5:13-1-9	VO		49VO-APPLW	110cd	BLDG C 2FL CVC Notification SI C	CORR 2C202 B	Y WA5:13-1-9 nd Voltage Drop		-13-1-9	x	(
	5.15-1				Notification OLO		la voltage brop					
	Starting Voltage:	29va	dc									
	Min. Device Voltage:	23.v	/dc	Primary Wire Gauge	e: 14ga		Wire Res. Per Ft.	0.003070	@ 75° Celsius	;		
	Allowable % Drop:	20.7	7%	Home Run Wire Gauge	e: 14ga		Wire Res. Per Ft.	0.003070	@ 75° Celsius	;		
											1	
	-				- I		Class B Calculati	ons				
			Distance)		Device	Current	Voltage	Voltage			%
Branch	Device #	Fro	om (Feet)	PID	Setting	Draw	at Device	Drop	at Device	9		ire
1	0:13-1-1 5:12_1_2	PANEL 5-12-1-1	100		110cd	0.1320	1.188	0.729	28.271		Brar I 2	iCh anr
1	5:13-1-3	5:13-1-2	50	49VO-ΔPPLW	110cd	0.1320	0.924	0.324	27.940			
1	5:13-1-4	5:13-1-3	50	49VO-APPLW	110cd	0.1320	0.792	0.243	27.420			
1	5:13-1-5	5:13-1-4	50	49VO-APPLW	110cd	0.1320	0.660	0.203	27.217			_
1	5:13-1-6	5:13-1-5	50	49VO-APPLW	110cd	0.1320	0.528	0.162	27.055			_
1	5:13-1-7	5:13-1-6	50	49VO-APPLW	110cd	0.1320	0.396	0.122	26.933			_
1	5:13-1-8	5:13-1-7	50	49VO-APPLW	110cd	0.1320	0.264	0.081	26.852			
1	5:13-1-9	5:13-1-8	50	49VO-APPLW	110cd	0.1320	0.132	0.041	26.812			
ES POWER SUPI	PLY 4 - IDNAC CARD 4	- CIRCUIT 5	5:13-2							SW	ITCH SET	ΓΙΝ
IDNac Addres	s Device Type))	PID	Setting		Custom Label (N	Max 40 Characters)			1		
5:13-2-1	VO		49VO-APPLW	110cd	BLDG C 2FL CVC	SUBWAITING 2	C2065:13-2-1		-13-2-1 >	x		
5:13-2-2	VO		49VO-APPLW	110cd	BLDG C 2FL CVC	RESTROOM 2C	204 5:13-2-2		-13-2-2	X		
5:13-2-3	VO		49VO-APPLW	110cd	BLDG C 2FL CVC	WAITING 2C262	2 5:13-2-3		-13-2-3	XX		
5:13-2-4	VO		49VO-APPLW	110cd	BLDG C 2FL CVC	HALL 2C254	5:13-2-4		-13-2-4	v		-
5:13-2-5	V0			110cd		RESTROOM 20	245 5:13-2-5 5:13-2-6		-13-2-5	X		┢
5:13-2-7	VO		49VO-APPLW	110cd	BLDG C 2FL CVC	TOILET 2C221	5:13-2-7		-13-2-7	x x		┢
	5:13-2				Distributed Load	l Voltage Drop			•			
				Drimory Wire Course	1400	7			a 75º Calaina			
	Allowable % Drop:	23.vo 20.7	rdc 7%	Primary Wire Gauge Home Run Wire Gauge	2:14ga 2:14ga]	Wire Res. Per Ft. Wire Res. Per Ft.	0.003070 0.003070	@ 75° Celsius @ 75° Celsius	;	l	
	Allowable % Drop:	23.vi 20.7	rdc 7% Distance	Primary Wire Gauge Home Run Wire Gauge	::14ga ::14ga	Device	Wire Res. Per Ft. Wire Res. Per Ft. Class B Calculation Current	0.003070 0.003070 ons Voltage	@ 75° Celsius @ 75° Celsius Voltage	;		%
Branch	Allowable % Drop:	23.vd 20.7	rdc 7% Distance om(Feet)	Primary Wire Gauge Home Run Wire Gauge	: 14ga : 14ga Setting	Device Draw	Wire Res. Per Ft. Wire Res. Per Ft. Class B Calculation Current at Device	0.003070 0.003070 ons Voltage Drop	@ 75° Celsius @ 75° Celsius Voltage at Device	9		% \ ire
Branch 1	Allowable % Drop: Device # 5:13-2-1	23.vd 20.7 Froi PANEL	om (Feet)	Primary Wire Gauge Home Run Wire Gauge PID 49VO-APPLW	2: 14ga 2: 14ga Setting 110cd	Device Draw 0.1320	Wire Res. Per Ft. Wire Res. Per Ft. Class B Calculation Current at Device 0.924	0.003070 0.003070 ons Voltage Drop 0.567	@ 75° Celsius @ 75° Celsius Voltage at Device 28.433	9	Wi Brar	% l ire
Branch 1 1	Allowable % Drop: Device # 5:13-2-1 5:13-2-2	23.vd 20.7 From PANEL 5:13-2-1	uo	Primary Wire Gauge Home Run Wire Gauge PID 49VO-APPLW 49VO-APPLW	2: 14ga 2: 14ga Setting 110cd 110cd	Device Draw 0.1320 0.1320	Wire Res. Per Ft. Wire Res. Per Ft. Class B Calculation Current at Device 0.924 0.792	0.003070 0.003070 ons Voltage Drop 0.567 0.243	@ 75° Celsius @ 75° Celsius Voltage at Device 28.433 28.190	9	Wi Brar Le	% ire ncl
Branch 1 1 1 1	Device # 5:13-2-1 5:13-2-3 5:12-2.4	23.vd 20.7 From PANEL 5:13-2-1 5:13-2-2 5:12-2-2	Distance 0m (Feet) 100 50 50 50	Primary Wire Gauge Home Run Wire Gauge PID 49VO-APPLW 49VO-APPLW 49VO-APPLW	2: 14ga 2: 14ga Setting 110cd 110cd 110cd 110cd	Device Draw 0.1320 0.1320 0.1320 0.1320	Wire Res. Per Ft. Wire Res. Per Ft. Class B Calculation Current at Device 0.924 0.792 0.660	0.003070 0.003070 ons Voltage Drop 0.567 0.243 0.203	@ 75° Celsius @ 75° Celsius Voltage at Device 28.433 28.190 27.987	9	W Brar Le	% ire ncl
Branch 1 1 1 1 1 1 1	Device Volage. Allowable % Drop: Device # 5:13-2-1 5:13-2-2 5:13-2-3 5:13-2-3 5:13-2-4 5:13-2-5	23.vd 20.7 From PANEL 5:13-2-1 5:13-2-2 5:13-2-3 5:13-2-4	Distance 7% Distance 0m (Feet) 100 50 50 50 50	Primary Wire Gauge Home Run Wire Gauge PID 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW	2: 14ga 2: 14ga Setting 110cd 110cd 110cd 110cd 110cd 110cd	Device Draw 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320	Wire Res. Per Ft. Wire Res. Per Ft. Class B Calculation Current at Device 0.924 0.792 0.660 0.528 0.396	0.003070 0.003070 ons Voltage Drop 0.567 0.243 0.203 0.162 0.122	@ 75° Celsius @ 75° Celsius Voltage at Device 28.433 28.190 27.987 27.825 27.703	9	Wi Brar Le	% \ ire nch eng
Branch 1 1 1 1 1 1 1 1 1	Device Volage. Allowable % Drop: Device # 5:13-2-1 5:13-2-2 5:13-2-3 5:13-2-4 5:13-2-5 5:13-2-6	23.vd 20.7 PANEL 5:13-2-1 5:13-2-2 5:13-2-3 5:13-2-4 5:13-2-5	Distance 7% Distance 0m (Feet) 100 50 50 50 50 50 50 50 50 50 50 50	Primary Wire Gauge Home Run Wire Gauge PID 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW	2: 14ga 14ga 5: 14ga 5: 14ga 14ga 14ga 14ga 14ga 110cd 110cd 110cd 110cd 110cd 110cd 110cd 110cd	Device Draw 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320	Wire Res. Per Ft. Wire Res. Per Ft. Class B Calculation Current at Device 0.924 0.792 0.660 0.528 0.396 0.264	0.003070 0.003070 ons Voltage Drop 0.567 0.243 0.203 0.162 0.122 0.081	@ 75° Celsius @ 75° Celsius Woltage at Device 28.433 28.190 27.987 27.825 27.703 27.622	9 9 	Wi Brar Le	% \ ire nch ang
Branch 1 1 1 1 1 1 1 1 1	Device # 5:13-2-1 5:13-2-2 5:13-2-3 5:13-2-3 5:13-2-4 5:13-2-5 5:13-2-6 5:13-2-7	23.vd 20.7 PANEL 5:13-2-1 5:13-2-2 5:13-2-3 5:13-2-4 5:13-2-5 5:13-2-6	Distance 7% Distance 0m (Feet) 100 50 50 50 50 50 50 50 50 50 50 50 50 50	Primary Wire Gauge Home Run Wire Gauge PID 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW	2: 14ga 2: 14ga 3: 14ga 5: 14ga 14ga 14ga 14ga 110cd 110cd 110cd 110cd 110cd 110cd 110cd 110cd	Device Draw 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320	Wire Res. Per Ft. Wire Res. Per Ft. Class B Calculation Current at Device 0.924 0.792 0.660 0.528 0.396 0.264 0.132	0.003070 0.003070 ons Voltage Drop 0.567 0.243 0.203 0.162 0.122 0.081 0.041	@ 75° Celsius @ 75° Celsius @ 75° Celsius Voltage at Device 28.433 28.190 27.987 27.825 27.703 27.622 27.582	9	Wi Brar Le	% \ ire nch ang
Branch 1 1 1 1 1 1 1 1 1	Device # 5:13-2-1 5:13-2-2 5:13-2-3 5:13-2-4 5:13-2-5 5:13-2-6 5:13-2-7	23.vi 20.7 PANEL 5:13-2-1 5:13-2-2 5:13-2-3 5:13-2-4 5:13-2-5 5:13-2-6	Distance 7% Distance 0m (Feet) 100 50 50 50 50 50 50 50 50 50 50 50	Primary Wire Gauge Home Run Wire Gauge PID 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW	2: 14ga 14ga 2: 14ga Setting 110cd 110cd 110cd 110cd 110cd 110cd 110cd 110cd 110cd 110cd	Device Draw 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320	Wire Res. Per Ft. Wire Res. Per Ft. Class B Calculation Current at Device 0.924 0.792 0.660 0.528 0.396 0.264 0.132	0.003070 0.003070 ons Voltage Drop 0.567 0.243 0.203 0.162 0.122 0.081 0.041	@ 75° Celsius @ 75° Celsius @ 75° Celsius Voltage at Device 28.433 28.190 27.987 27.825 27.703 27.622 27.582	9 9 	Wi Brar Le	% \ ire nch ang
Branch 1 1 1 1 1 1 1 5 POWER SUPI	Device # 5:13-2-1 5:13-2-2 5:13-2-3 5:13-2-4 5:13-2-5 5:13-2-6 5:13-2-7	23.vd 20.7 PANEL 5:13-2-1 5:13-2-2 5:13-2-3 5:13-2-3 5:13-2-4 5:13-2-5 5:13-2-5 5:13-2-6	Distance 7% Distance 0m (Feet) 100 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50	Primary Wire Gauge Home Run Wire Gauge PID 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW	2: 14ga 14ga 2: 14ga Setting 110cd 110cd 110cd 110cd 110cd 110cd 110cd 110cd	Device Draw 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320	Wire Res. Per Ft. Wire Res. Per Ft. Class B Calculation Current at Device 0.924 0.792 0.660 0.528 0.396 0.264 0.132	0.003070 0.003070 ons Voltage Drop 0.567 0.243 0.203 0.162 0.122 0.081 0.041	@ 75° Celsius @ 75° Celsius @ 75° Celsius Voltage at Device 28.433 28.190 27.987 27.825 27.703 27.622 27.582	9 9 	Wi Brar Le	% \ ire nch >ng
Branch 1 1 1 1 1 1 1 ES POWER SUPI IDNac Addres 5:12-2-1	Device # 5:13-2-1 5:13-2-2 5:13-2-3 5:13-2-4 5:13-2-5 5:13-2-6 5:13-2-7	23.vd 20.7 PANEL 5:13-2-1 5:13-2-2 5:13-2-3 5:13-2-4 5:13-2-5 5:13-2-5 5:13-2-6 - CIRCUIT 5	Distance m (Feet) 100 50 50 50 50 50 50 50 50 50	Primary Wire Gauge Home Run Wire Gauge PID 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 500-APPLW	2: 14ga 2: 14ga 3: 14ga Setting 110cd 110cd 110cd 110cd 110cd 110cd 110cd 110cd 110cd 110cd 110cd 110cd	Device Draw 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320	Wire Res. Per Ft. Wire Res. Per Ft. Class B Calculation Current at Device 0.924 0.792 0.660 0.528 0.396 0.264 0.132	0.003070 0.003070 ons Voltage Drop 0.567 0.243 0.203 0.162 0.122 0.081 0.041	@ 75° Celsius @ 75° Celsius @ 75° Celsius Voltage at Device 28.433 28.190 27.987 27.825 27.703 27.622 27.582	s s s s s w 1 x	Wi Brar Le	% ire nch ng
Branch 1 1 1 1 1 1 1 ES POWER SUPI IDNac Addres 5:13-3-1 5:13-3-2	Device # 5:13-2-1 5:13-2-2 5:13-2-3 5:13-2-4 5:13-2-5 5:13-2-6 5:13-2-7	23.vd 20.7 PANEL 5:13-2-1 5:13-2-2 5:13-2-3 5:13-2-3 5:13-2-4 5:13-2-5 5:13-2-5 5:13-2-6 - CIRCUIT 5	Distance 7% Distance 0m (Feet) 100 50 50 50 50 50 50 50 50 50 50 50 50 50 49VO-APPLW 49VO-APPLW	Primary Wire Gauge Home Run Wire Gauge PID 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 58etting 110cd 110cd	2: 14ga 2: 14ga 3: 14ga Setting 110cd 1	Device Draw 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320	Wire Res. Per Ft. Wire Res. Per Ft. Class B Calculation Current at Device 0.924 0.792 0.660 0.528 0.396 0.264 0.132	0.003070 0.003070 ons Voltage Drop 0.567 0.243 0.203 0.162 0.122 0.081 0.041	@ 75° Celsius @ 75° Celsius @ 75° Celsius at Device 28.433 28.190 27.987 27.825 27.703 27.622 27.582	s e SW 1 X X	Wi Brar Le ITCH SETT	% \ ire nch ng
Branch 1 1 1 1 1 1 5:13-3-1 5:13-3-3	Device # 5:13-2-1 5:13-2-2 5:13-2-3 5:13-2-4 5:13-2-5 5:13-2-6 5:13-2-7	23.vi 20.7 PANEL 5:13-2-1 5:13-2-2 5:13-2-3 5:13-2-4 5:13-2-5 5:13-2-6 - CIRCUIT 5	Distance 7% Distance 0m (Feet) 100 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW	Primary Wire Gauge Home Run Wire Gauge PID 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 110cd 110cd 110cd	2: 14ga 2: 14ga 3: 14ga 5: 14ga 5: 14ga 110cd	Device Draw 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 MALL 2C228 HALL 2C228 HALL 2C2236	Wire Res. Per Ft. Wire Res. Per Ft. Class B Calculation Current at Device 0.924 0.792 0.660 0.528 0.396 0.264 0.132	0.003070 0.003070 0.003070 0.005 0.243 0.203 0.162 0.122 0.081 0.041	@ 75° Celsius @ 75° Celsius @ 75° Celsius at Device 28.433 28.190 27.987 27.825 27.703 27.622 27.582 	s s s s s s s s s s s s s s s s s s s	Wi Brar Le	% \ ire nch ang
Branch 1 1 1 1 1 1 5:13-3-1 5:13-3-2 5:13-3-3 5:13-3-4	Device # 5:13-2-1 5:13-2-2 5:13-2-3 5:13-2-4 5:13-2-5 5:13-2-6 5:13-2-7	23.vi 20.7 PANEL 5:13-2-1 5:13-2-2 5:13-2-3 5:13-2-3 5:13-2-4 5:13-2-5 5:13-2-5 5:13-2-6 - CIRCUIT 5	Distance 7% Distance 0m (Feet) 100 50 49VO-APPLW 49VO-APPLW 49VO-APPLW	Primary Wire Gauge Home Run Wire Gauge PID 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 110cd 110cd 110cd 110cd	2: 14ga 3: 110cd 3:	Device Draw 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 MLP 2C223 MLP 2C223	Wire Res. Per Ft. Wire Res. Per Ft. Class B Calculation Current at Device 0.924 0.792 0.660 0.528 0.396 0.264 0.132	0.003070 0.003070 ons Voltage Drop 0.567 0.243 0.203 0.162 0.122 0.081 0.041	 @ 75° Celsius @ 75° Celsius @ 75° Celsius @ 75° Celsius Woltage at Device 28.433 28.190 27.987 27.825 27.703 27.622 27.622 27.582 	s s s s s s s s s s s s s s s s s s s	UTCH SETT	% ire nch ng
Branch 1 1 1 1 1 1 1 ES POWER SUPI IDNac Addres 5:13-3-1 5:13-3-2 5:13-3-3 5:13-3-4 5:13-3-5	Device # 5:13-2-1 5:13-2-2 5:13-2-3 5:13-2-4 5:13-2-5 5:13-2-6 5:13-2-7	23.vi 20.7 PANEL 5:13-2-1 5:13-2-2 5:13-2-3 5:13-2-3 5:13-2-4 5:13-2-5 5:13-2-5 5:13-2-6 - CIRCUIT 5	Distance 7% Distance 0m (Feet) 100 50 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW	Primary Wire Gauge Home Run Wire Gauge PID 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2: 14ga 3: 110cd 3:	Device Draw 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 MLP 2C242 HALL 2C2236 MLP 2C242 HALL 2C200	Wire Res. Per Ft. Wire Res. Per Ft. Class B Calculation Current at Device 0.924 0.792 0.660 0.528 0.396 0.264 0.132 Max 40 Characters) 223 5:13-3-1 5:13-3-2 5:13-3-5 5:13-3-5	0.003070 0.003070 ons Voltage Drop 0.567 0.243 0.203 0.162 0.122 0.081 0.041	 @ 75° Celsius @ 75° Celsius @ 75° Celsius @ 75° Celsius Woltage at Device 28.433 28.190 27.987 27.987 27.703 27.622 27.703 27.622 27.582 	s s s s s s s s s s s s s s s s s s s	ITCH SETT	% \ ire nch ng
Branch 1 1 1 1 1 1 1 1 ES POWER SUPI IDNac Addres 5:13-3-1 5:13-3-2 5:13-3-3 5:13-3-4 5:13-3-5 5:13-3-6 5:13-3-6	Device # 5:13-2-1 5:13-2-2 5:13-2-3 5:13-2-4 5:13-2-5 5:13-2-6 5:13-2-7	23.vi 20.7 PANEL 5:13-2-1 5:13-2-2 5:13-2-3 5:13-2-3 5:13-2-4 5:13-2-5 5:13-2-5 5:13-2-6 - CIRCUIT 5	Distance 7% Distance 7% 100 513-3 PID 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW	Primary Wire Gauge Home Run Wire Gauge PID 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 49VO-APPLW 110cd 110cd 110cd 110cd 110cd 110cd 110cd	2: 14ga 3: 110cd 3:	Device Draw 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 0.1320 MLL 2C223 HALL 2C2236 MLP 2C242 HALL 2C200 HALL 2C200	Wire Res. Per Ft. Wire Res. Per Ft. Class B Calculation Current at Device 0.924 0.792 0.660 0.528 0.396 0.264 0.132 Max 40 Characters) 223 5:13-3-1 5:13-3-2 5:13-3-5 5:13-3-6	0.003070 0.003070 ons Voltage Drop 0.567 0.243 0.203 0.162 0.122 0.081 0.041	 @ 75° Celsius @ 75° Celsius @ 75° Celsius @ 75° Celsius Woltage at Device 28.433 28.190 27.987 27.987 27.825 27.703 27.622 27.622 27.582 	s s s s s s s s s s s s s s s s s s s		
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SETTINGS % Vdrop Wire Length Branch 1: 0.28%







Johnson Controls 11019 Strang Line Road Lenexa , KS 66215

P: (913) 894-0010 F: (913) 894-0020 www.jci.com

To: Saint Lukes East Hospital 100 NE Saint Lukes Blvd Lee Summit, MO, 64086 Project: SLE NUC Med Spect CT FA JCI#: 650400519 Date: 07/17/23

Fire Alarm System Material List

Item	Part Number	Description
1	4098-9714	PHOTOELECTRONIC SMOKE SENSOR
2	4098-9792	STANDARD SENSOR BASE
3	4098-9791	SENSOR BASE WITH RELAY DRIVER
4	2098-9737	RELAY DETECTOR ACCESSORY

RELEASED FOR CONSTRUCTION As Noted on Plan Review

> Lee's Summit Fire Department Lee's Summit, Missouri

> > 09/19/2023

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9 Simplex

UL, ULC, CSFM Listed; FM Approved; MEA (NYC) Acceptance*

True Alarm Analog Sensing

TrueAlarm Analog Sensors – Photoelectric and Heat; Standard Bases and Accessories

Features

TrueAlarm analog sensing provides:

• Digital transmission of analog sensor values via IDNet or MAPNET II two-wire communications

For use with the following Simplex[®] products:

- 4007ES, 4010, 4010ES, 4100ES, and 4100U Series control panels; and 4008 Series control panels with reduced feature set (refer to data sheet S4008-0001 for details)
- 4020, 4100, and 4120 Series control panels, Universal Transponders, and 2120 TrueAlarm CDTs equipped for MAPNET II operation

Fire alarm control panel provides:

- Peak value logging allowing accurate analysis of each sensor for individual sensitivity selection
- Sensitivity monitoring satisfying NFPA 72 sensitivity testing requirements; automatic individual sensor calibration check verifies sensor integrity
- Automatic environmental compensation, multi-stage alarm operation, and display of sensitivity directly in percent per foot
- Ability to display and print detailed sensor information in plain English language

Photoelectric smoke sensors provide:

• Seven levels of sensitivity from 0.2% to 3.7% (refer to additional information on page 3)

Heat sensors provide:

- Three fixed temperature sensing thresholds: 135° F, 155° F and 190° F
- Rate-of-rise temperature sensing
- Utility temperature sensing
- Listed to UL 521 and ULC-S530

General features:

- Operation is for ceiling or wall mounting
- Listed to UL 268 and ULC-S529
- Louvered smoke sensor design enhances smoke capture by directing flow to chamber; entrance areas are minimally visible when ceiling mounted
- Designed for EMI compatibility
- Magnetic test feature is provided
- Different bases are available to support a supervised or unsupervised output relay, and/or a remote LED alarm indicator

Additional base reference:

- For isolator bases, refer to data sheet \$4098-0025
- For sounder bases, refer to data sheet S4098-0028
- For photo/heat sensors, refer to data sheet S4098-0024 (single address) and S4098-0033 (dual address)
- * These products have been approved by the California State Fire Marshal (CSFM) pursuant to Section 13144.1 of the California Health and Safety Code. See CSFM Listings 7272-0026:218, 7271-0026:231, 7270-0026:216, and 7300-0026:217 for allowable values and/or conditions concerning material presented in this document. Accepted for use – City of New York Department of Buildings – MEA35-93E. Additional listings may be applicable, contact your local Simplex product supplier for the latest status. Listings and approvals under Simplex Time Recorder Co. are the property of Tyco Fire Protection Products.



4098-9714 TrueAlarm Photoelectric Sensor Mounted in Base

Description

Digital Communication of Analog Sensing. TrueAlarm analog sensors provide an analog measurement digitally communicated to the host control panel using Simplex addressable communications. At the control panel, the data is analyzed and an average value is determined and stored. An alarm or other abnormal condition is determined by comparing the sensor's present value against its average value and time.

Intelligent Data Evaluation. Monitoring each sensor's average value provides a continuously shifting reference point. This software filtering process compensates for environmental factors (dust, dirt, etc.) and component aging, providing an accurate reference for evaluating new activity. With this filtering, there is a significant reduction in the probability of false or nuisance alarms caused by shifts in sensitivity, either up or down.

Control Panel Selection. Peak activity per sensor is stored to assist in evaluating specific locations. The alarm set point for each TrueAlarm sensor is determined at the host control panel, selectable as more or less sensitive as the individual application requires.

Timed/Multi-Stage Selection. Sensor alarm set points can be programmed for timed automatic sensitivity selection (such as more sensitive at night, less sensitive during day). Control panel programming can also provide multi-stage operation per sensor. For example, a 0.2% level may cause a warning to prompt investigation while a 2.5% level may initiate an alarm.

Sensor Alarm and Trouble LED Indication. Each sensor base's LED pulses to indicate communications with the panel. If the control panel determines a sensor is in alarm, or is dirty or has some other type of trouble, the details are annunciated at the control panel and that sensor base's LED will be turned on steadily. During a system alarm, the control panel will control the LEDs such that an LED indicating a trouble will return to pulsing to help identify the alarmed sensors.

TrueAlarm Sensor Bases and Accessories

Sensor Base Features

Base mounted address selection:

- Address remains with its programmed location
- Accessible from front (DIP switch under sensor)

General features:

- Automatic identification provides default sensitivity when substituting sensor types
- Integral red LED for power-on (pulsing), or alarm or trouble (steady on)
- Locking anti-tamper design mounts on standard outlet box
- Magnetically operated functional test

Sensor Bases

4098-9792, Standard Sensor Base

4098-9789, Sensor Base with wired connections for:

- 2098-9808 Remote LED alarm indicator or 4098-9822 relay (relay is unsupervised and requires separate 24 VDC)
- Supervised Relay Bases (not compatible with 2120 CDT):
- **4098-9791, 4-Wire Sensor Base**, use with remote or locally mounted 2098-9737 relay, requires separate 24 VDC
- **4098-9780, 2-Wire Sensor Base**, use with remote or locally mounted 4098-9860 relay, no separate power required
- Supervised relay operation is programmable and can be manually operated from control panel
- Includes wired connections for remote LED alarm indicator or 4098-9822 relay (relay is unsupervised and requires separate 24 VDC)

Sensor Base Options

2098-9737, Remote or local mount supervised relay:

 DPDT contacts for resistive/suppressed loads, power limited rating of 3 A @ 28 VDC; non-power limited rating of 3 A @ 120 VAC (requires external 24 VDC coil power)

4098-9860, Remote or local mount supervised relay:

• SPDT dry contacts, power limited rating of 2 A @ 30 VDC, resistive; non-power limited rating of 0.5 A @ 125 VAC, resistive

4098-9822, LED Annunciation Relay:

- Activates when base LED is on steady, indicating local alarm or trouble
- DPDT contacts for resistive/suppressed loads, power limited rating of 2 A @ 28 VDC; non-power limited rating of 1/2 A @ 120 VAC, (requires external 24 VDC coil power)

4098-9832, Adapter plate:

- Required for surface or semi-flush mounting to 4" square electrical box and for surface mounting to 4" octagonal box
- Can be used for cosmetic retrofitting to existing 6-3/8" diameter base product

2098-9808, Remote red LED Alarm Indicator:

• Mounts on single gang box (shown in illustration to right)



Description

TrueAlarm sensor bases contain integral addressable electronics that constantly monitor the status of the detachable photoelectric or heat sensors. Each sensor's output is digitized and transmitted to the system fire alarm control panel every four seconds.

Since TrueAlarm sensors use the same base, different sensor types can be easily interchanged to meet specific location requirements. This feature also allows intentional sensor substitution during building construction. When conditions are temporarily dusty, instead of covering the smoke sensors (causing them to be disabled), heat sensors may be installed without reprogramming the control panel. Although the control panel will indicate an incorrect sensor type, the heat sensor will operate at a default sensitivity providing heat detection for building protection at that location.

Mounting Reference

Electrical Box Requirements: (boxes are by others)

Without relay in the box: 4" octagonal or 4" square, 1-1/2" deep; single gang, 2" deep

With relay in the box : 4" octagonal or 4" square, 1-1/2" deep, with 1-1/2" extension ring





TrueAlarm Bases 4098-9780, 4098-9789, 4098-9791, & 4098-9792

True*Alarm* Sensors Features

Sealed against rear air flow entry Interchangeable mounting EMI/RFI shielded electronics

Heat sensors:

- Selectable rate compensated, fixed temperature sensing with or without rate-of-rise operation
- Rated spacing distance between sensors:

Fixed Temp. Setting	UL & ULC Spacing	FM Spacing, Either Fixed Temperature Setting
135° F / 190° F* (57.2° C / 88° C)	60 ft x 60 ft (18.3 m)	20 ft x 20 ft (6.1 m) for fixed temperature only; RTI = Quick
155° F (68° C)	40 ft x 40 ft (12.2 m)	50 ft x 50 ft (15.2 m) for fixed temperature with either rate-of-rise selection; RTI = Ultra Fast

*Note: 190° F (88° C) ratings apply only to the 4098-9734 sensor.

Smoke Sensors:

- Photoelectric technology sensing
- 360° smoke entry for optimum response
- Built-in insect screens

4098-9714 Photoelectric Sensor

TrueAlarm photoelectric sensors use a stable, pulsed infrared LED light source and a silicon photodiode receiver to provide consistent and accurate low power smoke sensing. Seven levels of sensitivity are available for each individual sensor, ranging from 0.2% to 3.7% per foot of smoke obscuration. Sensitivities of 0.2%, 0.5%, and 1% are for special applications in clean areas. Standard sensitivities are 1.5%, 2.0%, 2.5%, 3.0%, and 3.7%. Application type and sensitivity are selected and then monitored at the fire alarm control panel.*

The sensor head design provides 360° smoke entry for optimum response to smoke from any direction. Due to its photoelectric operation, air velocity is not normally a factor, except for impact on area smoke flow.



4098-9714 Photoelectric Sensor with Base

4098-9733 and 4098-9734 Heat Sensors

TrueAlarm heat sensors are self-restoring and provide rate compensated, fixed temperature sensing, selectable with or without rate-of-rise temperature sensing. Due to its small thermal mass, the sensor accurately and quickly measures the local temperature for analysis at the fire alarm control panel. Rate-of-rise temperature detection is selectable at the control panel for either 15° F (8.3° C) or 20° F (11.1° C) per minute. Fixed temperature sensing is independent of rate-of-rise sensing and programmable to operate at 135° F (57.2° C) or 155° F (68° C). The 4098-9734 sensor provides an additional 190° F (88° C) set point.

In a slow developing fire, the temperature may not increase rapidly enough to operate the rate-of-rise feature. However, an alarm will be initiated when the temperature reaches its rated fixed temperature setting.

TrueAlarm heat sensors can be programmed as a utility device to monitor for temperature extremes in the range from 32° F to 155° F (0° C to 68° C). This feature can provide freeze warnings or alert to HVAC system problems. *Refer to specific panels for availability*.



4098-9733 Heat Sensor with Base



4098-9734 High Temperature Heat Sensor with Base

<u>WARNING</u>: In most fires, hazardous levels of smoke and toxic gas can build up before a heat detection device would initiate an alarm. In cases where Life Safety is a factor, the use of smoke detection is highly recommended.

Application Reference

Sensor locations should be determined only after careful consideration of the physical layout and contents of the area to be protected. Refer to NFPA 72, the *National Fire Alarm and Signaling Code*. On smooth ceilings, smoke sensor spacing of 30 ft (9.1 m) may be used as a guide.*

* For detailed application information including sensitivity selection, refer to Installation Instructions 574-709.

TrueAlarm Analog Sensing Product Selection Chart

TrueAlarm Sensor Bases (for use with Sensors 4098-9714 and 4098-9733)

(Refer to Application Manual 574-709 and Installation Instructions 574-707 for additional information)

Model*	Color	Description	10 01 4	Compatibility	Mounting Requirements			
4098-9792	White					4" octagonal or 4" square box, 1-1/2"		
4098-9776	Black	Standard Sensor Base		No options		min. depth; or single gang box, 2" min. depth		
4098-9789	White	Sensor Base with connection	s for					
4098-9789 IND	White	Remote LED Alarm Indicator	or	2098-9808 Remote Alarm Indicator 4098-9822 Unsupervised Relay	or	4" octagonal or 4" square box		
4098-9775	Black	Unsupervised Relay			depend on total wire count and			
1000 0701	14/1-11-	4-Wire Sensor Supervised R	elay	2098-9737 Supervised Remote Rela	ау	wire size, refer to accessories		
4098-9791""	white	Base with connections for LE Indicator or Unsupervised Re	D elay	4098-9808 Remote Alarm Indicator 4098-9822 Unsupervised Relay	or	** NOTE: 4098-9791 and 4098-		
		2-Wire Sensor Supervised R	elay	4098-9860 Supervised Remote Rela	ay	with the 2120 CDT		
4098-9780**	White	Base with connections for LE	D	2098-9808 Remote Alarm Indicator	or			
		Indicator or Unsupervised Re	elay	4098-9822 Unsupervised Relay				
TrueAlarm Sen	sors							
Model*	Model*	Description		Compatibility	Mounting Requirements			
4098-9714	White	Distant in Cardon Cardon						
4098-9714 IND 4098-9774	Black	Photoelectric Smoke Sensor		Bases 4098-9775, 4098-9776, 4098	8-9792,	Refer to base requirements		
4030-3774	W/hite	Heat Sensor		4098-9789, 4098-9791, and 4098-9	780			
4098-9734	White	High Temperature Heat Sens	or					
TrueAlarm Sen	sor/Base Acces	sories						
Model	Description		Com	patibility	a Requirements			
2098-9737	Supervised Relay, melectrical box	nounts remote or in base	For us	se with 4098- <u>9791</u> base	Remote Mounting requires 4" octagonal or 4" square box, 1-1/2" minimum depth Base Mounting requires 4" octagonal box, 2- 1/8" deep with 1-1/2" extension ring			
4098-9860	Supervised Relay, melectrical box	nounts remote or in base	For us	se with 4098- <u>9780</u> base				
2098-9808	Remote Red LED Al stainless steel plate	arm Indicator on single gang	Bases 9780	s 4098-9789, 4098-9791, and 4098-	Single gang box, 1-1/2" minimum depth			
4098-9822	Unsupervised Relay Note: Mounts only in	, tracks base LED status; base electrical box	Bases 9780	\$ 4098-9789, 4098-9791, and 4098-	4" octago extension	ctagonal box, 2-1/8" deep with 1-1/2" nsion ring		
4098-9832	Adapter Plate		Bases 4098-	s 4098-9792, 4098-9789, 9791, and 4098-9780	Required square bo 4" octago	equired for surface or semi-flush mounted 4" quare box and for surface mounted ' octagonal box		

* Note: Model numbers ending in IND are assembled in India.

Specifications

General Operating Specifications

Communications and Sensor S	Supervisory Power	IDNet or MAPNET II communications, auto-selected, 1 address per base					
Communications Connections		Screw terminals for in/out wiring, 18 to 14 AWG (0.82 mm ² to 2.08 mm ²)					
Remote LED Alarm Indicator C	Current	1 mA typical, no impact to alarm current					
Remote LED Alarm Indicator a	ind Relay Connections	Color coded wire leads, 18 AWG (0.82 mm ²)					
UL Listed Operating Temperat	ure Range	32° to 100° F (0° to 38° C)					
	with 4098-9733 Heat Sensor	32° to 122° F (0° to 50° C)					
Operating Lemperature	with 4098-9714 Smoke Sensor	15° to 122° F (-9° to 50° C)					
	With 4098-9734 Heat Sensor	32° to 150° F (0° to 66° C)					
Storage Temperature Range		0° F to 140° F (-18° C to 60° C)					
Humidity Range		10 to 95% RH					
4098-9714 Smoke Sensor Air	Velocity Rating	0-4000 ft/min (0-1220 m/min)					
Housing Color		Frost White or Black					
4098-9791 Base With Superv	ised Remote Relay 2098-9737 (see	page 2 for contact ratings)					
Externally Supplied Relay Coil	Voltage	18-32 VDC (nominal 24 VDC)					
Supervisory Current		270 μA, from 24 VDC supply					
Alarm Current with 2098-9737	Relay	28 mA, from 24 VDC supply					
4098-9780 Base With Superv	ised Remote Relay 4098-9860 (see	page 2 for contact ratings)					
Power		Supplied from communications					
4098-9822 Unsupervised Rel	ay, Requirements for Bases 4098-9	9789. 4098-9791, and 4098-9780 (see page 2 for contact ratings)					
Externally Supplied Relay Coil	Voltage	18-32 VDC (nominal 24 VDC)					
Supervisory Current		Supplied from communications					
Alarm Current		13 mA from separate 24 VDC supply					

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