

30" x 42" - Arch E1 Size

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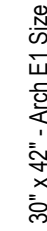
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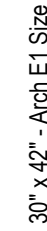


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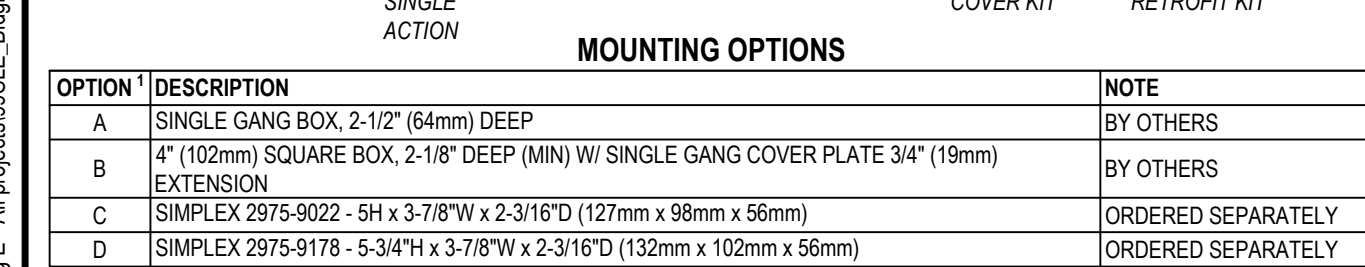
PER NFPA 72

VISUAL APPLIANCE MOUNTING HEIGHT CONSIDERATIONS IN SLEEPING ROOMS

1. MIN DISTANCE IN SLEEPING ROOMS IS 24" (610mm) FROM CEILING TO TOP OF LENS FOR 110CD STROBES WITHIN 16' OF THE PILLOW
2. 177CD STROBES, USED IN SLEEPING ROOMS, CAN BE WITHIN THE 24" (610mm) MINIMUM DISTANCE FROM THE CEILING. THE HIGHER INTENSITY IS TO COMPENSATE FOR A POSSIBLE SMOKE LAYER.



SIMPLEX 4099 SERIES



SIMPLEX 49HFV SERIES WALL MOUNTED HIGH-FIDELITY SPEAKER / VISUAL



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SIMPLEX 4098-9792



SIMPLEX 49HF SERIES WALL MOUNTED HIGH FIDELITY SPEAKERS



SIMPLEX IDNet



SCALE: NTS

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30" x 42" Arch E Size

TPR6 FL2 4100es XPDR BATTERY CALCULATION							
Module	Qty	Description	Standby Current	Total Standby	Alarm Current	Total Alarm	
Panel Equipment							
4100-9600	1	4100ES FIRE ALARM TRANSPONDER PANEL, 120 VAC	0.0360	0.0360	0.0360	0.0360	
4100-5451	1	4100ES IDNAC Card	0.1240	0.1240	0.2300	0.2300	
4100-1313	1	ANALOG FLEX 50W AMP W/3 CLASS B NACS 70V	0.0850	0.0850	2.2700	2.2700	
4100-0621	1	4100 ANALOG AUDIO RISER MODULE	0.0150	0.0150	0.0150	0.0150	
4100-3109	1	4100ES IDNn2 MODULE - UP TO 250 DEVICES 2 ISOLATED LOOPS	0.0500	0.0500	0.1000	0.1000	
4100-5401	2	4100ES ES Power Supply Only	0.0680	0.1360	0.0770	0.1540	
Panel Totals				0.4460		2.8050	
IDNet Addressable Devices (SLC)							
4090-9002	4	IDNET RELAY IAM, ADDR. *	SEE NOTE BELOW				
4098-9714	17	SMOKE SENSOR, ADDR., PHOTOELECTRIC					
4098-9792	17	STANDARD BASE, ADDR. *					
4099-9904	2	MANUAL PULL STATION, SINGLE ACTION, ADDR. *					
Constant current draw of .8mA standby and 1mA alarm per address used. Devices requiring additional current are accounted for in the section labeled "Miscellaneous Peripheral Devices Requiring Additional System Power".							
IDNAC Addressable Notification Appliances							
Setting							
49HFV-APPLW	20	HIGH FIDELITY SPEAKER/STROBE, ADDR., WALL MNT, MULTI CD, CLEAR LENS, APPLIANCE ONLY	15	0.0008	0.0160	0.0470	0.9400
49HFV-APPLW	6	HIGH FIDELITY SPEAKER/STROBE, ADDR., WALL MNT, MULTI CD, CLEAR LENS, APPLIANCE ONLY	30	0.0008	0.0048	0.0570	0.3420
49HFV-APPLW	4	HIGH FIDELITY SPEAKER/STROBE, ADDR., WALL MNT, MULTI CD, CLEAR LENS, APPLIANCE ONLY	75	0.0008	0.0032	0.1000	0.4000
49VO-WRF	38	STROBE, ADDR., WALL MNT, CLEAR LENS, RED, FIRE	110	0.0008	0.0304	0.1320	5.0160
Total IDNAC Device Current:				0.0544		6.6980	
IDNAC Current Boost for 29vdc Regulated Output **						3.8186	
Speakers							
49HFV-APPLW	30	HIGH FIDELITY SPEAKER/STROBE, ADDR., WALL MNT, MULTI CD, CLEAR LENS, APPLIANCE ONLY	Speaker quantities shown for reference only. See Amplifiers chart for Speaker Circuit dB Loss Calculations.				
49HF-APPLW	1	HIGH FIDELITY SPEAKER, ADDR., WALL MNT, APPLIANCE ONLY					
Peripheral Totals				0.0000		10.5166	
Address Totals				23	0.0184	0.0230	
System Totals:				Standby	0.5188	Alarm	13.3446
* Device Address current draw included below (See Additional Current Draws):							
IDNet cards include 40mA alarm current for 20 device LEDs in alarm in addition to base current listed on datasheet.							
1. Base FACI includes current draw for all included components. See data sheet for details.							

Battery Set #1 (Cabinet/Charger #1)		Standby Current	Standby Total	Alarm Current	Alarm Total
Select ALL Power Supplies on this battery set:					
ESPS-1			0.3474		7.1560
ESPS-2			0.1530		2.3470
Sub Total			0.5004		9.5030
Additional Current Draws:					
RUI Connected Peripheral Devices		0	x 0.0035	= 0.0000	x 0.0035 = 0.0000
MAPNET/IDNet Device Address Communication Current		23	x 0.000800	= 0.0184	x 0.001000 = 0.0230
Sub Total			0.5188		13.3446
Spare addressable point capacity		0%	0	x 0.0008	= 0.0000
Total			0.5188		13.3446
Standby Time =		24 Hrs	x 0.5188	= 12.4512	Standby Ah
Alarm Time =		15 Min	0.25 x 13.3446	= 3.3362	Alarm Ah
Additional Spare Battery Capacity =		0%		+ 0.0000	
Battery Discharge Factor =		20%		+ 3.1575	
Minimum Battery Required		2081-9287 25AH (2x)			18.9448
Battery Supplied		2081-9287 25AH (2x)			

* System Totals represent total system current requirements. Those currents may be distributed between multiple battery sets or power supplies as shown above.

POWER SUPPLY SUMMARY			Powered By Ext. Source Qty.	Standby Current	Alarm Current
Module	Qty	Description			
PANEL COMPONENTS POWERED BY POWER SUPPLY					
4100-9600	1	4100ES FIRE ALARM TRANSPONDER PANEL, 120 VAC		0.0360	0.0360
4100-5451	1	4100ES IDNAC Card		0.1240	0.2300
4100-1313	1	ANALOG FLEX 50W AMP W/3 CLASS B NACS 70V		0.0850	2.2700
4100-0621	1	4100 ANALOG AUDIO RISER MODULE		0.0150	0.0150
4100-3109	1	4100ES IDNn2 MODULE - UP TO 250 DEVICES 2 ISOLATED LOOPS		0.0500	0.1000
4100-5401	2	4100ES ES Power Supply Only		0.0680	0.0770
Components					
NAC Currents from Voltage Drops				0.2930	0.4580
IDNac Current Boost for 29vdc Regulated Output *				0.0544	6.6980
MAPNET/IDNet Device Addresses used				0.0000	3.8186
Total				0.0176	0.0220
Total				0.3474	7.1560

ESPS-1 SUMMARY			Qty	Total Standby	Total Alarm
Qty			0.0000	0.0000	0.0000
1	0.0360	0.0360			
1	0.1240	0.2300			
0	0.0000	0.0000			
1	0.0850	2.2700			
1	0.0150	0.0150			
1	0.0500	0.1000			
1	0.0680	0.0770			
Total				0.1530	2.3470

ESPS-1 Configuration			Capacity: 9.500A
Ckt. Capacity:	3.000A		
Aux. Capacity:	2.000A		

ESPS-2 SUMMARY			Qty	Total Standby	Total Alarm
Qty			0.0000	0.0000	0.0000
0	0.0000	0.0000			
1	0.0000	0.0000			
0	0.0000	0.0000			
0	0.0000	0.0000			
0	0.0000	0.0000			
0	0.0000	0.0000			
1	0.0680	0.0770			
Total				0.1530	2.3470

ESPS-2 Configuration			Capacity: 9.500A
Ckt. Capacity:	3.000A		
Aux. Capacity:	2.000A		

TPR6 FL2 - IDNAC-1 CIRCUIT SUMMARY & VOLTAGE DROP							
Circuit	Description	Alarm Current	% Drop	Unit Load	Wire Length	Spare Current	Spare Voltage Drop
T1-A1	FL2 GI ADDITION	1.682A	9.97%	30	875	44%	52%
T1-A2	EXISTING DEVICES	2.508A	13.28%	19	475	16%	36%
T1-A3	EXISTING DEVICES	2.508A	13.28%	19	475	16%	36%

POINTS SHOWN IN ITALIC TEXT REFER TO EXISTING DEVICES.

ES POWER SUPPLY 2 - IDNAC CARD 1 - CIRCUIT T1-A1				SWITCH SETTINGS								
IDNAC Address	Device Type	PID	Setting	Custom Label (Max 40 Characters)	1	2	3	4	5	6	7	8
T1-A1-1	SV	49HFV-APPLW	15cd	FL2 NP OFFICE 02 ZE535	27	X						ON
T1-A1-2	SV	49HFV-APPLW	15cd	FL2 CORR. BY DOCTORS OFC. 02 ZE537	12	X						ON
T1-A1-3	SV	49HFV-APPLW	30cd	FL2 DOCTORS OFFICES 02 ZE537	17	X	X					ON
T1-A1-4	SV	49HFV-APPLW	30cd	FL2 STAFF LOUNGE 02 ZE536	32	X	X					ON
T1-A1-5	SV	49HFV-APPLW	15cd	FL2 STAFF TLT 02 ZE532	37	X	X					ON
T1-A1-6	SV	49HFV-APPLW	30cd	FL2 SCHEDULER OFFICE 02 ZE531	26	X	X					ON
T1-A1-7	SV	49HFV-APPLW	15cd	FL2 CORR. BY SCHED. OFFICE 02 ZE531	22	X	X	X				ON
T1-A1-8	SV	49HFV-APPLW	15cd	FL2 CORR. BY CHECK OUT 02 ZE526	34		X					ON
T1-A1-9	SV	49HFV-APPLW	15cd	FL2 CORR. BY CHECK OUT 02 ZE529	46	X	X					ON
T1-A1-10	SV	49HFV-APPLW	15cd	FL2 CORR. BY ELEVATOR LOBBY 02 ZE500	33	X	X					ON
T1-A1-11	SV	49HFV-APPLW	15cd	FL2 STAFF TLT 02 ZE533	23	X	X	X				ON
T1-A1-12	SV	49HFV-APPLW	30cd	FL2 NURSES OFFICE 02 ZE540	40		X	X				ON
T1-A1-13	SV	49HFV-APPLW	75cd	FL2 NURSE'S OFFICE 02 ZE540	38	X	X	X				ON
T1-A1-14	SV	49HFV-APPLW	15cd	FL2 CORR. BY EXAM 02 ZE524	84	X	X	X				ON
T1-A1-15	SV	49HFV-APPLW	15cd	FL2 CORR. BY EXAM 02 ZE518	97	X	X	X	X			ON
T1-A1-16	SV	49HFV-APPLW	15cd	FL2 CORR. BY	31				X			ON
T1-A1-17	SV	49HFV-APPLW	30cd	FL2 CORRIDOR 02 ZE600A	14	X			X			ON
T1-A1-18	SV	49HFV-APPLW	15cd	FL2 CHECK IN 02 ZE502B	83	X			X			ON
T1-A1-19	SV	49HFV-APPLW	75cd	FL2 WAITING ROOM 02 ZE502A	40	X	X	X				ON
T1-A1-20	SV	49HFV-APPLW	75cd	FL2 UNOCCUPIED SPACE 02 ZE601	10	X	X	X				ON
T1-A1-21	SV	49HFV-APPLW	15cd	FL2 PAT ENT TLT 02 ZE503	25	X	X	X				ON
T1-A1-22	SV	49HFV-APPLW	30cd	FL2 MA 02 ZE530	42	X	X	X				ON
T1-A1-23	SV	49HFV-APPLW	15cd	FL2 CORR. BY VITALS 02 ZE530A	25	X	X	X				ON
T1-A1-24	SV	49HFV-APPLW	15cd	FL2 CORR. BY EXAM 02 ZE507	24	X	X	X				ON
T1-A1-25	SV	49HFV-APPLW	15cd	FL2 PAT ENT TLT 02 ZE505	21	X	X	X				ON
T1-A1-26	SV	49HFV-APPLW	15cd	FL2 PAT ENT TLT 02 ZE506	18	X	X	X				ON
T1-A1-27	SV	49HFV-APPLW	15cd	FL2 CORR. BY STAFF TLT 02 ZE513	38	X	X	X				ON
T1-A1-28	SV	49HFV-APPLW	75cd	FL2 STORAGE 02 ZE511	27	X	X	X				ON
T1-A1-29	SV	49HFV-APPLW	15cd	FL2 STAFF TLT 02 ZE513	20	X	X	X	X			ON
T1-A1-30	SV	49HFV-APPLW	15cd	FL2 TRAINING 02 ZE512	19	X	X	X	X			ON

IDNET CHANNEL M1			ADDRESSES IN USE: 23 (8.2%) SPARE ADDRESSES: 227 (90.8%)					SWITCH SETTINGS							
Address	Device Type	Point Type	Location Description			1	2	3	4	5	6	7	8		
M1-1	PHOTO	SMOKE	FL2 STAFF LOUNGE 02 ZE536		M1-1	X							ON		
M1-2	PHOTO	SMOKE	FL2 SCHEDULER OFFICE 02 ZE531		M1-2	X							ON		
M1-3	PHOTO	SMOKE	FL2 CORR. BY CHECK OUT 02 ZE527		M1-3	X	X						ON		
M1-4	PHOTO	SMOKE	FL2 CORR. BY SCHED. OFFICE 02 ZE531		M1-4		X						ON		
M1-5	PHOTO	SMOKE	FL2 CORR. BY CHECK IN 02 ZE502B		M1-5	X	X						ON		
M1-6	ADRPUL	PULL	FL2 ELEVATOR LOBBY 02 ZE500		M1-6	X	X						ON		
M1-7	PHOTO	SMOKE	FL2 CORR. BY ELEVATOR LOBBY 02 ZE500		M1-7	X	X						ON		
M1-8	PHOTO	SMOKE	FL2 CORR. BY CHECK OUT 02 ZE529		M1-8			X					ON		
M1-9	PHOTO	SMOKE	FL2 CHECK OUT 02 ZE529		M1-9	X	X						ON		
M1-10	PHOTO	SMOKE	FL2 CHECK OUT 02 ZE526		M1-10	X	X						ON		
M1-11	PHOTO	SMOKE	FL2 CORR. BY EXAM 02 ZE520		M1-11	X	X						ON		
M1-12	PHOTO	SMOKE	FL2 CORR. BY EXAM 02 ZE517		M1-12		X	X					ON		
M1-13	PHOTO	SMOKE	FL2 CORRIDOR 02 ZE600A		M1-13	X	X	X					ON		
M1-14	ADRPUL	PULL	FL2 CORRIDOR 02 ZE600A		M1-14	X	X	X					ON		
M1-15	PHOTO	SMOKE	FL2 CORR. BY STAFF TLT		M1-15	X	X	X					ON		
M1-16	PHOTO	SMOKE	FL2 MA 02 ZE530		M1-16				X				ON		
M1-17	PHOTO	SMOKE	FL2 VITALS 02 ZE504		M1-17	X			X				ON		
M1-18	PHOTO	SMOKE	FL2 EXAM 02 ZE508		M1-18	X	X		X				ON		
M1-19	RIAM	CDAMPER	FL2 ZE511 DAMPER E		M1-19	X	X	X					ON		
M1-20	RIAM	CDAMPER	FL2 ZE511 DAMPER W		M1-20		X	X					ON		
M1-21	RIAM	CDAMPER	FL2 ZE511 DAMPER W		M1-21	X	X	X					ON		
M1-22	RIAM	CDAMPER	FL2 ZE511 DAMPER S		M1-22		X	X	X				ON		
M1-23	PHOTO	SMOKE	FL2 HALL BY STAFF LOUNGE 02 ZE536		M1-23	X	X	X	X				ON		
M1-24							X	X	X				ON		
M1-25						X	X	X	X				ON		