



# Notifier Device Compatibility Document



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## Control Panel Circuit Specification LISTED for 8th Edition

**AFC-600 (MMX-2, FZM-1)**

Compatibility Identifier: "A"  
NAC Power: MPS-6 Filtered

**AFP-100 (MMX-2, FZM-1)**

Compatibility Identifier: "A"  
NAC Power: Full Wave Rectified

**AFP-200 (MMX-2, FZM-1)**

Compatibility Identifier: "A"  
NAC Power: Full Wave Rectified

**AFP-300/400 (MMX-2, FZM-1)**

Compatibility Identifier: "A"  
NAC Power: MPS-400 Filtered

**AM2020/AFP-1010 (MMX-2, FZM-1)**

Compatibility Identifier: "A"  
NAC Power: MPS-24A Filtered

**FireWarden-100/FireWarden-100E (NZM-100)**

Initiating Device Circuit Voltage: 19.05 - 25.18 VDC  
Compatibility Identifier: "A"  
NAC Power: Full Wave Rectified

**NFS-640 (MMX-2, FZM-1)**

Compatibility Identifier: "A"  
NAC Power: Filtered  
Synchronizes System Sensor ADA horn/strobes

**NFS-3030 (IZM-8RK, IZE-A, FZM-1)**

Compatibility Identifier: "A"  
Panel Power: AMPS-24/AMPS-24E Filtered

**RP-1001, RP-1002, PAR-3, SFP-400, SFP-400B**

Initiating Loop Voltage: 17.5 - 26.5 VDC  
Max Detector Loop Standby Current: 2.0 mA/Loop  
Compatibility Identifier: "A"  
NAC Power: Full Wave Rectified

**S500 (IZ-4 / IZ-8 / IZE-A)**

Initiating Loop Voltage: 17 - 26.5 VDC  
Max Detector Loop Standby Current: 2.5 mA/Loop  
Compatibility Identifier: "A"  
NAC Power: MPS-24B: Full Wave Rectified

**S5000 (IZM-8 / IZE-A)**

Initiating Loop Voltage: 17 - 26.5 VDC  
Max Detector Loop Standby Current: 2.5 mA/Loop  
Compatibility Identifier: "A"  
NAC Power: MPS-24A Filtered or  
MPS-24B: Full Wave Rectified

**SFP-1024**

Initiating Device Circuit Voltage: 17.9 - 26.4 VDC  
Max Detector Circuit Standby Current: 2.0 mA/circuit  
Compatibility Identifier: "A"  
NAC Power: Full Wave Rectified

**SFP-2402, SFP-2404**

Initiating Loop Voltage: 17.3 - 24.6 VDC  
Max Detector Circuit Standby Current: 2.0 mA/circuit  
Compatibility Identifier: "A"  
NAC Power: Full Wave Rectified  
Selectable Strobe Synchronization for NACs  
(System Sensor, Gentex, and Wheelock)

**SGL-404**

Initiating Loop Voltage: 18 - 26.3 VDC  
Max Detector Loop Standby Current: 2.0 mA/Loop  
Compatibility Identifier: "A"  
NAC Power: Full Wave Rectified

**SGL-2000**

Initiating Loop Voltage: 18 - 26.2 VDC  
Max Detector Loop Standby Current: 2.0 mA/Loop  
Compatibility Identifier: "A"  
NAC Power: Full Wave Rectified

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## Control Panel Circuit Specification LISTED for 8th Edition with System Sensor SpectrAlert Advance series Notification Appliances (with MDL module)\*

### **AFP-100 (MMX-2, FZM-1)**

Compatibility Identifier: "A"

NAC Power: Full Wave Rectified

### **AFP-200 (MMX-2, FZM-1)**

Compatibility Identifier: "A"

NAC Power: Full Wave Rectified

### **AFP-300/400 (MMX-2, FZM-1)**

Compatibility Identifier: "A"

NAC Power: MPS-400 Filtered

Individual NAC needs to be derated from 2.5 to 1.25 Amps

### **AM2020/AFP-1010 (MMX-2, FZM-1)**

Compatibility Identifier: "A"

NAC Power: ACPS-2406 Filtered

### **NFS-640 (MMX-2, FZM-1)**

Compatibility Identifier: "A"

NAC Power: Filtered

Synchronizes System Sensor ADA horn/strobes

### **NFS-3030 (IZM-8RK, IZE-A, FZM-1)**

Compatibility Identifier: "A"

NAC Power: ACPS-2406 Filtered

### **RP-1001, RP-1002, PAR-3, SFP-400, SFP-400B**

Initiating Loop Voltage: 17.5 - 26.5 VDC

Max Detector Loop Standby Current: 2.0 mA/Loop

Compatibility Identifier: "A"

NAC Power: Full Wave Rectified

### **S5000 (IZM-8 / IZE-A)**

Initiating Loop Voltage: 17 - 26.5 VDC

Max Detector Loop Standby Current: 2.5 mA/Loop

Compatibility Identifier: "A"

NAC Power: MPS-24A Filtered

Individual NAC needs to be derated from 3 to 2 Amps

### **SFP-1024**

Initiating Device Circuit Voltage: 17.9 - 26.4 VDC

Max Detector Circuit Standby Current: 2.0 mA /circuit

Compatibility Identifier: "A"

NAC Power: Full Wave Rectified

Individual NAC needs to be derated from 3 to 2 Amps

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\* SpectrAlert Advance devices can be used only with Panel LISTED (8th and 9th Edition) for use with this Series Notification Appliance, and all these models with suffix A marketed for Canada.

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## Control Panel Circuit Specification LISTED for 9th Edition with System Sensor SpectrAlert Advance Series Notification Appliances\*

### **FireWarden-50 (NZM-100)**

Initiating Device Circuit Voltage: 18.75 - 26.1 VDC  
Compatibility Identifier: "A"  
NAC Power: Full Wave Rectified

### **FireWarden-100-2/FireWarden-100-2E (NZM-100)**

Initiating Device Circuit Voltage: 19.05 - 25.18 VDC  
Compatibility Identifier: "A"  
NAC Power: Full Wave Rectified  
Synchronizes System Sensor ADA horn/strobes

### **NFS2-640 (FZM-1)**

Compatibility Identifier: "A"  
NAC Power: KAPS-24 Filtered  
Programmable Horn/Strobes Synchronization for NACs (System Sensor, Gentex, and Wheelock)  
Releasing Devices Special Applications Voltage Range: 20.16 - 26.42 VDC  
NAC Power: CPS-24 Filtered  
5V Output: 4.97 - 4.99 VDC  
24V Output: 19.48 - 26.35 VDC

### **NFS-320 (FZM-1)**

Compatibility Identifier: "A"  
NAC Power: KAPS-24 Filtered  
Range: 20.16 - 26.42 VDC  
NAC Power: CPS-24 Filtered  
5V Output: 4.97 - 4.99 VDC  
24V Output: 19.48 - 26.35 VDC  
Programmable Horn/Strobes Synchronization for NACs (System Sensor, Gentex, and Wheelock) Releasing Devices Special Applications Voltage Range: 20.16-26.42 VDC

### **SFP-2402, SFP-2404**

Initiating Loop Voltage: 17.3 - 24.6 VDC  
Max Detector Circuit Standby Current: 2.0 mA/circuit  
Compatibility Identifier: "A"  
NAC Power: Full Wave Rectified  
Selectable Horn/Strobes Synchronization for NACs (System Sensor, Gentex, and Wheelock)

### **FCPS-24S6, FCPS-24S8**

Field Charger/ Power Supply  
Input Voltage: 9 to 32 VDC

NAC Power: Filtered

Selectable Strobe Synchronization for NACs (System Sensor, Gentex, and Wheelock)

### **SFP-5UD(E)/SFP-5UDC**

Initiating Device Circuit Voltage: 17.18 - 20.48 VDC  
Max Detector Circuit Standby Current: 2.0 mA/circuit  
Compatibility Identifier: "A"  
NAC Power: Full Wave Rectified (Special Application)

### **SFP-10UD(E)/SFP-10UDC**

Initiating Device Circuit Voltage: 17.18 -20.48 VDC  
Max Detector Circuit Standby Current: 2.0 mA/circuit  
Compatibility Identifier: "A"  
NAC Power: Filtered (Special Application)

### **RP-2001(E), RP-2002(E)**

Initiating Device Circuit Voltage: 17.18 - 20.48 VDC  
Max Detector Circuit Standby Current: 2.0 mA/circuit  
Compatibility Identifier: "A"  
NAC Power: Filtered (Special Application)

### **ACPS-610/E ACPS-610/E**

Addressable Charger / Power Supply  
Use with any addressable CLIP or FlashScan Fire Alarm Control Panel.  
Selectable sychronization with System Sensor SpectrAlert® Series horn and strobes, or Gentex, or Wheelock horns and strobes.  
NAC Power: KAPS-24 Filtered  
19.4 - 26.4 VDC range for compatibility  
NAC Power: CPS-24 Filtered  
5V Output: 4.97 - 4.99 VDC  
24V Output: 19.57 - 26.38 VDC

### **NFS2-3030 (FZM-1)**

Compatibility Identifier: "A"  
Panel Power: AMPS-24/AMPS-24E Filtered  
Panel Power: Alternate AMPS-24/AMPS-24E Filtered  
CPS-24: 5V 4.97 - 4.99, 24V 19.95 - 26.23 VDC  
AMPS-K2: 24 Main 20.14 - 26.42 VDC  
24 Aux 20.28 - 26.42 VDC

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\* SpectrAlert Advance devices can be used only with Panel LISTED (8th and 9th Edition) for use with this Series Notification Appliance, and all these models with suffix A marketed for Canada.

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## Accessories Circuit Specification LISTED for 8th Edition

### ACPS-2406

#### Addressable Charger / Power Supply

Use with the AFP-100, AFP-200, AFP-300/400, AFC-600, AFP-1010/AM2020, NFS-640, NFS-3030

Control Panels

NAC Power: Filtered

Selectable Synchronization with System Sensor SpectrAlert® Series horn and strobes, Gentex, or Wheelock horns and strobes.

### APS-6R

#### Auxiliary Power Supply

Use with the AFC-640, AFP-300/400, AFP-1010 / AM2020, NFS-640, NFS-3030, System 500, System 5000, XP Transponder, Control Panels

NAC Power: Filtered

### AVPS-24

#### Audio/Visual Power Supply

Use with the AFP-200, AFP-1010 / AM2020, System 500, System 5000, XP Transponder, Control Panels

NAC Power: Full Wave Rectified

### FCPS-24

#### Field Charger/ Power Supply

Input Voltage: 9 to 32 VDC

19.1 - 26.4 VDC range for compatibility

NAC Power: Filtered

### MMX-2, FZM-1

#### Monitor Modules

Initiating Loop Voltage: 16 - 27.5 VDC

Compatibility Identifier: "A"

### XPIQ

#### Quad Intelligent Audio Transponder

Compatibility Identifier: "A"

Use with the AFC-600, AFP-300/400, AFP-1010/AM2020, NFS-640, NFS-3030 Control Panels

NAC Power: Filtered (uses APS-6R, FCPS-24)

### XP6-MA

#### Six-Zone Interface Module

Compatibility Identifier: "A"

Use with the NFS-640, NFS-3030 Control Panels

Normal Operating Voltage: 15 - 32 VDC

Stand-By Current: 2 mA

### XP SERIES (XPM-8)

#### Transponder Monitor Module

Initiating Loop Voltage: 24 VDC Nominal

Max Detector Loop Standby Current: 3.5 mA/Loop

Compatibility Identifier: "A"

NAC Power: MPS-24A Filtered

## Accessories Circuit Specification LISTED for 9th Edition

### FCPS-24S6(E)(C), FCPS-24S8(E)(C)

#### Field Charger/ Power Supply

Input Voltage: 9 to 32 VDC

NAC Power: Filtered

Selectable Strobe Synchronization for NACs (System Sensor, Gentex, and Wheelock)

### ACPS-610/E

#### Addressable Charger / Power Supply

Use with any addressable CLIP or FlashScan Fire Alarm Control Panel.

Selectable Synchronization with System Sensor SpectrAlert® Series horn and strobes, or Gentex, or Wheelock horns and strobes.

NAC Power: KAPS-24 Filtered

19.4 to 26.4 VDC range for compatibility

NAC Power: CPS-24 Filtered

5V Output: 4.97 - 4.99 VDC

24V Output: 19.48 - 26.35 VDC

### FZM-1

#### Monitor Modules

Initiating Loop Voltage: 16 - 27.5 VDC

Compatibility Identifier: "A"

### XP6-MA

#### Six-Zone Interface Module

Compatibility Identifier: "A"

Use with the NFS-320, NFS2-640, NFS2-3030 Control Panels

Normal Operating Voltage: 15 - 32 VDC

Stand-By Current: 2 mA

### NZM-100-6

#### Six-Zone Interface Module

Compatibility Identifier: "A"

Use with the FireWarden-50, FireWarden-100-2 Control Panels

Normal Operating Voltage: 18 - 28 VDC

Stand-By Current: 2 mA

### XPIQ

#### Quad Intelligent Audio Transponder

Compatibility Identifier: "A"

Use with the NFS2-640, NFS2-3030 Control Panels

### AMPS-24

#### Addressable Charger / Power Supply

Use with any addressable CLIP or FlashScan Fire Alarm Control Panel.

CPS-24: 5V Output: 4.97 - 4.99 VDC

24V Output: 19.95 - 26.23 VDC

AMPS-K2: 24V Main: 20.14 - 26.42 VDC

24V Aux: 20.28 - 26.42 VDC

## FM-Approved Automatic Water Control Valves for PreAction and Deluge Sprinkler Applications (section not recognized by UL)

AFP-200, AFP-300 / 400, AFC-600 / NFS-640, NFS2-640, NFS-320, NFS-3030, AM2020 / AFP-1010, RP-1001, RP-1002, S500 (TC-2/TC-4), S5000 (TCM-2/TCM-4), XP5-C, FCM-1

### Solenoid Group [A]

Skinner solenoid valve Model LV2LBX25, 24 VDC, 11 Watts, 458 mA, 1/2 in. NPS, 5/8 in. orifice.

### Solenoid Group [B] These valves are interchangeable.

ASCO solenoid valve Model T8210A107, 24 VDC, 16.8 Watts, 700 mA, 1/2 in. NPS, 5/8 in. orifice.

ASCO solenoid valve Model R8210A107, 24 VDC, 16.8 Watts, 700 mA, 1/2 in. NPS, 5/8 in. orifice.

ASCO solenoid valve Model 8210A107, 24 VDC, 16.8 Watts, 700 mA, 1/2 in. NPS, 5/8 in. orifice.

### Solenoid Group [C]

Star Sprinkler Corp. Solenoid P/N 5550, 24 VDC, part of Model D deluge valve.

### Solenoid Group [D]

ASCO solenoid valve Model 8210G207, 24 VDC, 10.6 Watts, 440 mA, 1/2 in. NPS, 1/2 in. orifice.

### Solenoid Group [E]

Skinner solenoid valve Model 73218BN4UNLVNOC111C2, 24 VDC, 10 Watts, 420 mA, 1/2 in. NPS, 5/8 in. orifice.

### Solenoid Group [F]

Skinner solenoid valve Model 73212BN4TNLVNOC322C2, 24 VDC, 22 Watts, 0.92 A, 1/2 in. NPS, 1/2 in. orifice, 250 psi (1725 kPa),

### Solenoid Group [G]

Skinner solenoid valve Model 71395SN2ENJ1NOH111C2, 24 VDC, 10 Watts, 420 mA, 1/4 in. NPS, 1/16 in. orifice, 250 psi (1725 kPa) rated working pressure.

Kidde-Fenwal valve Model 890181, 24 VDC, 48 Watts, 2 A.

Kidde-Fenwal valve Model 899175, 24 VDC, 48 Watts, 2 A.

Kidde-Fenwal valve Model 48650001, 24 VDC, 4.8 Watts, 0.2 A

Kidde-Fenwal valve Model 897494, 24 VDC, 33 Watts, 1.5 A

**Note:** Refer to the FM approval guide for automatic water control valves that are compatible with solenoids listed above.

## Releasing Applications

UL Listed 24VDC solenoids for use with the following Panels: RP-2001, RP-2002, NFS2-3030, NFS2-640, and NFS-320 with FCM-1 and FCM-1-REL (FCM-1-RELA for Canada) Control Module and NACs

(Refer to the appropriate panel installation manual to determine the available power output.)

**Table 1: Releasing Applications**

Manufacturer	Releasing Device Type	Releasing Device Model/Part Number
ASCO	Solenoid	HV2740607
ASCO	Solenoid	HV2838521
Honeywell/Skinner	Solenoid	701X7028
Barnbrook System	Solenoid	EA45
Kidde-Fenwal	Solenoid	890181*
Snap-tite	Solenoid	2823A-2NB-A4F6,ORIF,11.0WATTS
Snap-tite	Solenoid	2823A-2NB-A4F5,ORIF,11.0WATTS
TLX	Solenoid	PA0036-A
Versa Valves	Solenoid	CGS-4232-NB3-S2,24VDC/10.5W
Victaulic	Solenoid	753E
Victaulic	Solenoid	767
Viking	Solenoid	11591
Viking	Solenoid	11595

\* Solenoids requiring greater than 1 Amp are not compatible with the AMPS-24 Power supply

**Table 2: Door Holders**

Manufacturer	Model	Type	Current (mA)
Rixson Firemark	FM-980	Floor Mount, single	68
Rixson Firemark	FM-986	Surface Wiring	68
Rixson Firemark	FM-998	Concealed Wiring	68
Edwards	DH150A	Floor Mount	96
Edwards	DH154A	Flush Mount	96
Edwards	DH158A	Surface Mount	96

**Table 3: UL Listed Relays**

Vendor	Model	Current (mA)
System Sensor	A77-716B	20
	EOLR-1	20
	PR-1	15
	PR-2/PR-3	30
	R-10T/R-10E	20
	R-14T/R-14E	20
	R-20T/R-20E	40
	R-24T/R-24E	40
Air Products & Controls, LTD.	MR-101/C	15
	MR-201/C	35
	PAM-1	15
	PAM-2	15
	PAM-SD	15

**Table 4: UL Compatible SLC Loop Surge Suppressors**

Manufacturer	Model Number
Ditek	2LVLP-F
Edco	SLCP-30
Northern Technologies	PLP-42N

**Table 5: UL Listed Four-Wire Smoke Detectors/Devices**

Smoke Detector/Base	Detector/Device Type	Max Standby Current (mA)	Alarm Current (mA)
Fenwal CPD-7021 (w/70-201000-005 Base)	Ionization	0.10	30
Fenwal PSD-7125	Photoelectric	0.10	*
Fenwal PSD-7126 (w/70-201000-005 Base)	Photoelectric	0.10	*
Gentex 824	Photoelectric	0.50	60
Gentex 824CP	Photoelectric	0.50	60
Gentex 824CPT	Photoelectric	0,50	60
Gentex 824T	Photoelectric	0.50	60
Hochiki HS-2 RB/4	Base	*	*
Hochiki SPB-24	Projected Beam	0.25	*
System Sensor B404B	Base	*	*
System Sensor B612LP	Base	*	39
System Sensor B614LP	Base	*	75
System Sensor DH100ACDCP†	Photoelectric	0.15	0.70
System Sensor DH100ACDCLP	Photoelectric	0.15	0.70
System Sensor DH400ACDCI	Ionization Duct	25	95
System Sensor DH400ACDCP†	Photoelectric Duct	25	95
System Sensor 1424†	Ionization	0.10	41
System Sensor 1424A† (ULC)	Ionization	0.10	41
System Sensor 1451 (w/B402 Base)	Ionization	0.10	39
System Sensor 2W-MOD	Loop Test/Maintenance Mod.	30	50
System Sensor 2112/24R†	Photoelectric	0.50	60/70
System Sensor 2112/24TR†	Photoelectric	0.50	60/70
System Sensor 2112/24ATR†	Photoelectric	0.50	60/70
System Sensor 2112/24AITR†	Photoelectric	0.50	60/70
System Sensor 2424† (ULC)	Photoelectric	0.10	41
System Sensor 2424TH† (ULC)	Photoelectric	0.10	41
System Sensor 2451†	Photoelectric	0.10	39
System Sensor 2451TH (w/B402 Base)†	Photoelectric	0.10	39
System Sensor 4W-B (12/24 Volt)	Photoelectric I <sup>3</sup>	0.05	23
System Sensor 4WT-B (12/24 Volt)	Photoelectric I <sup>3</sup> w/ Therm	0.05	23
System Sensor 6424 Beam Detector	Projected Beam	10	28.4
System Sensor BEAM1224 (S) Beam Smoke Detector	Conv. Projected Beam	17*	38.5*

\* Contact manufacturer for current draws.

† Discontinued Product

Control panels with notification circuits supplied by special purpose (FWR, filtered) power must use appliances listed in Table 6.

**Table 6: System Sensor Notification Appliances (UL Listed) (1 of 4)**

System Sensor	Rated Voltage <sup>2</sup>	FWR DC	Filtered DC	Sync. with MDL module
<b>Notes:</b>				
1) All current draws are shown in milliamperes and reflect worst case average.				
2) Nominal operating voltages shown.				
3) Refer to manufacturer's installation instructions for more information.				
4) <b>SpectrAlert Advance</b> devices can be used only with Panel LISTED (8 <sup>th</sup> and 9 <sup>th</sup> Edition) for use with this Series Notification Appliance; all the models with suffix "A" are marketed for Canada.				
System Sensor CH SpectrAlert Advance Chime <sup>3,4</sup>	24 VDC	54*	58*	Yes
System Sensor CHS SpectrAlert Advance Chime/Strobe <sup>3,4</sup>	24 VDC	220*	217*	Yes
System Sensor HR SpectrAlert Advance Horn <sup>3,4</sup>	24 VDC	75*	69*	Yes
System Sensor P2R SpectrAlert Advance Horn/Strobe <sup>3,4</sup>	24 VDC	229*	229*	Yes
System Sensor P2RH SpectrAlert Advance Horn/Strobe High <sup>3,4</sup>	24 VDC	281*	309*	Yes
System Sensor P4R SpectrAlert Advance 4-wire Horn/Strobe Standard <sup>3,4</sup>	24 VDC	280*	279*	Yes
System Sensor P4RH SpectrAlert Advance Horn/Strobe High <sup>3,4</sup>	24 VDC	333*	355*	Yes
System Sensor PC2R SpectrAlert Advance 2 wire Horn/Strobe Standard <sup>3,4</sup>	24 VDC	229*	229*	Yes
System Sensor PC2RH SpectrAlert Advance 2-wire Horn/Strobe High <sup>3,4</sup>	24 VDC	281*	309*	Yes
System Sensor PC4R SpectrAlert Advance 4-wire Horn/Strobe <sup>3,4</sup>	24 VDC	280*	279*	Yes
System Sensor PC4RH SpectrAlert Advance 4-wire Horn/Strobe High <sup>3,4</sup>	24 VDC	333*	355*	Yes
System Sensor SCR SpectrAlert Advance Strobe Standard <sup>3,4</sup>	24 VDC	205*	210*	Yes
System Sensor SCRH SpectrAlert Advance Strobe High <sup>3,4</sup>	24 VDC	258*	286*	Yes
System Sensor SR SpectrAlert Advance Horn/Strobe <sup>3,4</sup>	24 VDC	205*	210*	Yes
System Sensor SRH SpectrAlert Advance Strobe High <sup>3,4</sup>	24 VDC	258*	286*	Yes
System Sensor CH24 Electronic Chime/Sounder	24 VDC	70	70	No
System Sensor CH2415 SpectrAlert Chime with Strobe <sup>3</sup>	24 VDC	114	114	No
System Sensor CH241575 SpectrAlert Chime with Strobe <sup>3</sup>	24 VDC	114	95	No
System Sensor CH2475 SpectrAlert Chime with Strobe <sup>3</sup>	24 VDC	207	181	No
System Sensor CH24110 SpectrAlert Chime with Strobe <sup>3</sup>	24 VDC	257	205	No
System Sensor CH24MC Multi candella Electronic Chime/Sounder <sup>3</sup>	24 VDC	282*	283*	Yes
System Sensor CH24MCW Multi candella Electronic Chime/Sounder <sup>3</sup>	24 VDC	282*	283*	Yes
System Sensor H24 SpectrAlert Horn <sup>3</sup>	24 VDC	57.5*	57*	Yes
System Sensor H24A SpectrAlert Horn <sup>3</sup> (ULC)	24 VDC	45	37	Yes
System Sensor SPR SpectrAlert Advance Wall Red Speaker <sup>3,4</sup>	25/70.7Vrms	*	*	N/A
System Sensor SPW SpectrAlert Advance Wall White Speaker <sup>3,4</sup>	25/70.7Vrms	*	*	N/A
System Sensor SPRV SpectrAlert Advance Wall Red Speaker Hi dB <sup>3,4</sup>	25/70.7Vrms	*	*	N/A
System Sensor SPWV SpectrAlert Advance Wall White Speaker Hi dB <sup>3,4</sup>	25/70.7Vrms	*	*	N/A
System Sensor SPRK SpectrAlert Advance Wall Outdoor Red Speaker <sup>3,4</sup>	25/70.7Vrms	*	*	N/A
System Sensor SPWK SpectrAlert Advance Wall Outdoor White Speaker <sup>3,4</sup>	25/70.7Vrms	*	*	N/A
System Sensor SPSR SpectrAlert Advance Wall Speaker/Strobe <sup>3,4</sup>	24 VDC	205*	210*	Yes <sup>†</sup>
System Sensor SPSRH SpectrAlert Advance Wall Speaker/Strobe Hi Cd <sup>3,4</sup>	24 VDC	258*	286*	Yes <sup>†</sup>
System Sensor SPSW SpectrAlert Advance Wall Speaker/Strobe <sup>3,4</sup>	24 VDC	205*	210*	Yes <sup>†</sup>
System Sensor SPSWH SpectrAlert Advance Wall Speaker/Strobe Hi Cd <sup>3,4</sup>	24 VDC	258*	286*	Yes <sup>†</sup>
System Sensor SPSRV SpectrAlert Advance Wall Red Hi dB Speaker/Strobe <sup>3,4</sup>	24 VDC	205*	210*	Yes <sup>†</sup>
System Sensor SPSWV SpectrAlert Advance Wall White Hi dB Speaker/Strobe <sup>3,4</sup>	24 VDC	205*	210*	Yes <sup>†</sup>
System Sensor SPSRK SpectrAlert Advance Wall Outd. Red Speaker/Strobe <sup>3,4</sup>	24 VDC	205*	210*	Yes <sup>†</sup>
System Sensor SPSWK SpectrAlert Advance Wall Outd. White Speaker/Strobe <sup>3,4</sup>	24 VDC	205*	210*	Yes <sup>†</sup>
System Sensor SPCW SpectrAlert Advance Ceiling White Speaker <sup>3,4</sup>	25/70.7Vrms	*	*	N/A
System Sensor SPCR SpectrAlert Advance Ceiling Red Speaker <sup>3,4</sup>	25/70.7Vrms	*	*	N/A
System Sensor SPCWV SpectrAlert Advance Ceiling White Speaker Hi dB <sup>3,4</sup>	25/70.7Vrms	*	*	N/A
System Sensor SPCRV SpectrAlert Advance Ceiling Red Speaker Hi dB <sup>3,4</sup>	25/70.7Vrms	*	*	N/A
System Sensor SPCWK SpectrAlert Advance Ceiling Outdoor White Speaker <sup>3,4</sup>	25/70.7Vrms	*	*	N/A
System Sensor SPSCR SpectrAlert Advance Ceiling Red Speaker/Strobe <sup>3,4</sup>	24 VDC	205*	210*	Yes <sup>†</sup>
System Sensor SPSCRH SpectrAlert Advance Ceiling Red Speaker/Strobe Hi Cd <sup>3,4</sup>	24 VDC	258*	286*	Yes <sup>†</sup>
System Sensor SPSCW SpectrAlert Advance Ceiling White Speaker/Strobe <sup>3,4</sup>	24 VDC	205*	210*	Yes <sup>†</sup>
System Sensor SPSCWH SpectrAlert Advance Ceiling White Speaker/Strobe Hi Cd <sup>3,4</sup>	24 VDC	258*	286*	Yes <sup>†</sup>

**Table 6: System Sensor Notification Appliances (UL Listed) (2 of 4)**

System Sensor	Rated Voltage <sup>2</sup>	FWR DC	Filtered DC	Sync. with MDL module
<b>Notes:</b>				
1) All current draws are shown in milliamperes and reflect worst case average.				
2) Nominal operating voltages shown.				
3) Refer to manufacturer's installation instructions for more information.				
4) <b>SpectrAlert Advance</b> devices can be used only with Panel LISTED (8 <sup>th</sup> and 9 <sup>th</sup> Edition) for use with this Series Notification Appliance; all the models with suffix "A" are marketed for Canada.				
System Sensor SPSCRV SpectrAlert Advance Ceiling Red Hi dB Speaker/Strobe <sup>3,4</sup>	24 VDC	205*	210*	Yes <sup>†</sup>
System Sensor SPSCRVH SpectrAlert Advance Ceiling Red Hi dB Speaker/Strobe Hi Cd <sup>3,4</sup>	24 VDC	258*	286*	Yes <sup>†</sup>
System Sensor SPSCWV SpectrAlert Advance Ceiling White Hi dB Speaker/Strobe <sup>3,4</sup>	24 VDC	205*	210*	Yes <sup>†</sup>
System Sensor SPSCWVH SpectrAlert Advance Ceiling White Hi dB Speaker/Strobe Hi Cd <sup>3,4</sup>	24 VDC	258*	286*	Yes <sup>†</sup>
System Sensor SPSCWK SpectrAlert Advance Ceiling Outdoor White Speaker/Strobe <sup>3,4</sup>	24 VDC	205*	210*	Yes <sup>†</sup>
System Sensor SPSCWHK SpectrAlert Advance Ceiling Outdoor White Speaker/Strobe <sup>3,4</sup>	24 VDC	205*	210*	Yes <sup>†</sup>
System Sensor SW-ALERT SpectrAlert Advance Wall amber lens Strobe <sup>3,4</sup>	24 VDC	205*	210*	Yes
System Sensor SWH-ALERT SpectrAlert Advance Wallamber lens Strobe Hi Cd <sup>3,4</sup>	24 VDC	258*	286*	Yes
System Sensor MA24EH Multi Alert Horn with Mechanical Tone	24 VDC	64	43	N/A
System Sensor MA-24D Electronic Sounder	24 VDC	73	46	N/A
System Sensor MAEH2415ADA Multi Alert Horn with Mechanical Tone/Strobe	24 VDC	278	216	N/A
System Sensor MAEH2475ADA Multi Alert Horn with Mechanical Tone/Strobe	24 VDC	273	216	N/A
System Sensor MAEH241575ADA Multi Alert Horn with Mechanical Tone/Strobe	24 VDC	343	271	N/A
System Sensor MAEH24110ADA Multi Alert Horn with Mechanical Tone/Strobe	24 VDC	318	256	N/A
System Sensor MAEH2415ADAS Multi Alert Horn with Mechanical Tone/Strobe	24 VDC	198	152	N/A
System Sensor MAEH241575ADAS Multi Alert Horn with Mechanical Tone/Strobe	24 VDC	253	241	N/A
System Sensor MAEH24LO Multi Alert Horn with Mechanical Tone/Strobe	24 VDC	109	68	N/A
System Sensor MAEH24LOC Multi Alert Horn with Mechanical Tone/Strobe	24 VDC	109	68	N/A
System Sensor MAEH24LOLA Multi Alert Horn with Mechanical Tone/Strobe	24 VDC	153	96	N/A
System Sensor MAEH24M Multi Alert Horn with Mechanical Tone/Strobe	24 VDC	189	118	N/A
System Sensor MAEH24MC Multi Alert Horn with Mechanical Tone/Strobe	24 VDC	189	118	N/A
System Sensor MASS2415ADA Sounder/Signaling Strobe	24 VDC	163	121	N/A
System Sensor MASS241575ADA Sounder/Signaling Strobe	24 VDC	193	139	N/A
System Sensor MASS2475ADA Sounder/Signaling Strobe	24 VDC	273	216	N/A
System Sensor MASS24110ADA Sounder/Signaling Strobe	24 VDC	318	256	N/A
System Sensor MASS2415ADAS Sounder/Signaling Strobe w/ Synch. Ckt.	24 VDC	163	121	N/A
System Sensor MASS241575ADAS Sounder/Signaling Strobe w/ Synch. Ckt.	24 VDC	193	139	N/A
System Sensor MASS24D Electronic Sounder/Strobe	24 VDC	118	71	N/A
System Sensor MASS24LO Electronic Sounder/Strobe	24 VDC	118	71	N/A
System Sensor MASS24LOC Electronic Ceiling Sounder/Strobe	24 VDC	118	71	N/A
System Sensor MASS24LOLA Electronic Sounder/Strobe with Fuego lens	24 VDC	118	71	N/A
System Sensor MASS24M Electronic Sounder/Strobe	24 VDC	198	121	N/A
System Sensor MASS24MC Electronic Ceiling Sounder/Strobe	24 VDC	198	121	N/A
System Sensor MDL / MDLW Sync Modules for use with SpectraAlert series (ULC)	24 VDC	15	11	-
System Sensor MDLA / MDLWA Sync Modules for use with SpectraAlert series (ULC)	24 VDC	15	11	-
System Sensor MHR SpectrAlert Advance Mini-Horn <sup>3</sup>	24 VDC	25 max	29 max	Yes
System Sensor MHW SpectrAlert Advance Mini-Horn <sup>3</sup>	24 VDC	25 max	29 max	Yes
System Sensor P1224MC SpectrAlert Horn/ Strobe <sup>3</sup> (ULC)	24 VDC	266	267*	Yes
System Sensor P2415 SpectrAlert Horn/Strobe <sup>3</sup>	24 VDC	106	83	Yes
System Sensor P2415A SpectrAlert Horn/Strobe <sup>3</sup> (ULC)	24 VDC	106	83	Yes
System Sensor P241575 SpectrAlert Horn/Strobe <sup>3</sup>	24 VDC	107	81	Yes
System Sensor P241575A SpectrAlert Horn/Strobe <sup>3</sup> (ULC)	24 VDC	107	81	Yes
System Sensor P2430 SpectrAlert Horn/Strobe <sup>3</sup>	24 VDC	121	102	Yes
System Sensor P2475 SpectrAlert Horn/Strobe <sup>3</sup>	24 VDC	196	169	Yes
System Sensor P2475ASpectrAlert Horn/Strobe <sup>3</sup> (ULC)	24 VDC	196	169	Yes
System Sensor P24110 SpectrAlert Horn/Strobe <sup>3</sup>	24 VDC	246	193	Yes
System Sensor P24110A SpectrAlert Horn/Strobe <sup>3</sup> (ULC)	24 VDC	246	193	Yes
System Sensor PA400R Mini-Alert Sounder	24 VDC	47.4*	47.4*	N/A
System Sensor PS24LO Add-on Strobe	24 VDC	45	25	N/A
System Sensor PC2415 SpectrAlert Ceiling Mount Horn/ Strobe <sup>3</sup> (ULC)	24 VDC	126*	121*	Yes

**Table 6: System Sensor Notification Appliances (UL Listed) (3 of 4)**

System Sensor	Rated Voltage <sup>2</sup>	FWR DC	Filtered DC	Sync. with MDL module	
<b>Notes:</b>					
1) All current draws are shown in milliamperes and reflect worst case average.					
2) Nominal operating voltages shown.					
3) Refer to manufacturer's installation instructions for more information.					
4) <b>SpectrAlert Advance</b> devices can be used only with Panel LISTED (8 <sup>th</sup> and 9 <sup>th</sup> Edition) for use with this Series Notification Appliance; all the models with suffix "A" are marketed for Canada.					
System Sensor PC241575 SpectrAlert Ceiling Mount Horn/ Strobe <sup>3</sup>	(ULC)	24 VDC	135*	135* <sup>†</sup>	Yes
System Sensor PC2430 SpectrAlert Ceiling Mount Horn/ Strobe <sup>3</sup>	(ULC)	24 VDC	165*	170*	Yes
System Sensor PC2475 SpectrAlert Ceiling Mount Horn/ Strobe <sup>3</sup>	(ULC)	24 VDC	255*	262*	Yes
System Sensor PC2495 SpectrAlert Ceiling Mount Horn/ Strobe <sup>3</sup>	(ULC)	24 VDC	297*	331*	Yes
System Sensor PC24115 SpectrAlert Ceiling Mount Horn/Strobe <sup>3</sup>	(ULC)	24 VDC	356*	382*	Yes
System Sensor PC24177 SpectrAlert Ceiling Mount Horn/Strobe <sup>3</sup>	(ULC)	24 VDC	457*	546*	Yes
System Sensor PS2415ADA Mini-Sounder/Strobe		24 VDC	110	90	N/A
System Sensor PS241575ADA Mini-Sounder/Strobe		24 VDC	135	108	N/A
System Sensor PS2475ADA Mini-Sounder/Strobe		24 VDC	135	108	N/A
System Sensor PS24110ADA Mini-Sounder/Strobe		24 VDC	240	225	N/A
System Sensor RP2415ADA Retrofit Strobe Plate		24 VDC	90	75	N/A
System Sensor RP241575ADA Retrofit Strobe Plate		24 VDC	120	93	N/A
System Sensor RP2475ADA Retrofit Strobe Plate		24 VDC	200	170	N/A
System Sensor RP24110ADA Retrofit Strobe Plate		24 VDC	245	210	N/A
System Sensor S1224MC SpectrAlert Strobe <sup>3</sup>	(ULC)	24 VDC	208*	209*	Yes
System Sensor S2415 SpectrAlert Strobe <sup>3</sup>		24 VDC	61	50	Yes
System Sensor S2415A SpectrAlert Strobe	(ULC)	24 VDC	61	50	Yes
System Sensor S241575 SpectrAlert Strobe <sup>3</sup>		24 VDC	65	56	Yes
System Sensor S241575A SpectrAlert Strobe <sup>3</sup>	(ULC)	24 VDC	65	56	Yes
System Sensor S2430 SpectrAlert Strobe		24 VDC	84	78	Yes
System Sensor S2475 SpectrAlert Strobe <sup>3</sup>		24 VDC	170	145	Yes
System Sensor S2475A SpectrAlert Strobe <sup>3</sup>	(ULC)	24 VDC	170	145	Yes
System Sensor S24110 SpectrAlert Strobe <sup>3</sup>		24 VDC	220	169	Yes
System Sensor S24110A SpectrAlert Strobe <sup>3</sup>	(ULC)	24 VDC	220	169	Yes
System Sensor SC2415 SpectrAlert Ceiling Mount Strobe <sup>3</sup>	(ULC)	24 VDC	68*	64*	Yes
System Sensor SC241575 SpectrAlert Ceiling Mount Strobe <sup>3</sup>	(ULC)	24 VDC	77*	78*	Yes
System Sensor SC2430 SpectrAlert Ceiling Mount Strobe <sup>3</sup>	(ULC)	24 VDC	107*	113*	Yes
System Sensor SC2475 SpectrAlert Ceiling Mount Strobe <sup>3</sup>	(ULC)	24 VDC	197*	205*	Yes
System Sensor SC2495 SpectrAlert Ceiling Mount Strobe <sup>3</sup>	(ULC)	24 VDC	239*	274*	Yes
System Sensor SC24115 SpectrAlert Ceiling Mount Strobe	(ULC)	24 VDC	298	325*	Yes
System Sensor SC24177 SpectrAlert Ceiling Mount Strobe	(ULC)	24 VDC	399*	489*	Yes
System Sensor SP1224MC SpectrAlert Strobe <sup>3</sup>		24 VDC	171	194	Yes
System Sensor SP1R2415ADA Speaker/Signaling Strobe		24 VDC <sup>†</sup>	90 <sup>†</sup>	75 <sup>†</sup>	N/A
System Sensor SP1R241575ADA Speaker/Signaling Strobe		24 VDC <sup>†</sup>	120 <sup>†</sup>	93 <sup>†</sup>	N/A
System Sensor SP1R2475ADA Speaker/Signaling Strobe		24 VDC <sup>†</sup>	200 <sup>†</sup>	170 <sup>†</sup>	N/A
System Sensor SP1R24110ADA Speaker/Signaling Strobe		24 VDC <sup>†</sup>	245 <sup>†</sup>	210 <sup>†</sup>	N/A
System Sensor SP201K SpectrAlert Outdoor Wall Speaker		25/70.7Vrms	*	*	N/A
System Sensor SP2C2415 SpectrAlert Speaker Strobe <sup>3</sup>		24 VDC <sup>†</sup>	68*	64*	Yes <sup>†</sup>
System Sensor SP2C241575 SpectrAlert Speaker Strobe <sup>3</sup>		24 VDC <sup>†</sup>	77*	78*	Yes <sup>†</sup>
System Sensor SP2C2430 SpectrAlert Speaker Strobe <sup>3</sup>		24 VDC <sup>†</sup>	107*	113*	Yes <sup>†</sup>
System Sensor SP2C2475 SpectrAlert Speaker Strobe <sup>3</sup>		24 VDC <sup>†</sup>	197*	205*	Yes <sup>†</sup>
System Sensor SP2C2495 SpectrAlert Speaker Strobe <sup>3</sup>		24 VDC <sup>†</sup>	239*	274*	Yes <sup>†</sup>
System Sensor SP2C24115 SpectrAlert Ceiling Mount Speaker Strobe <sup>3</sup>		24 VDC <sup>†</sup>	298*	325*	Yes <sup>†</sup>
System Sensor SP2C24177 SpectrAlert Ceiling Mount Speaker Strobe <sup>3</sup>		24 VDC <sup>†</sup>	399*	489*	Yes <sup>†</sup>
System Sensor SP2R1224MC SpectrAlert Selectable Wall Speaker/ Strobe <sup>3</sup>		24 VDC <sup>†</sup>	208*	209*	Yes <sup>†</sup>
System Sensor SP2R1224MCK SpectrAlert Selectable Outdoor Wall Speaker/ Strobe <sup>3</sup>		24 VDC <sup>†</sup>	208*	209*	Yes <sup>†</sup>
System Sensor SP2R2415 SpectrAlert Speaker Strobe <sup>3</sup>		24 VDC <sup>†</sup>	61*	50*	Yes <sup>†</sup>
System Sensor SP2R2415/75 SpectrAlert Speaker Strobe <sup>3</sup>		24 VDC <sup>†</sup>	65*	56*	Yes <sup>†</sup>
System Sensor SP2R2430 SpectrAlert Speaker Strobe <sup>3</sup>		24 VDC <sup>†</sup>	84*	78*	Yes <sup>†</sup>
System Sensor SP2R2475 SpectrAlert Speaker Strobe <sup>3</sup>		24 VDC <sup>†</sup>	170*	145*	Yes <sup>†</sup>

**Table 6: System Sensor Notification Appliances (UL Listed) (4 of 4)**

System Sensor	Rated Voltage <sup>2</sup>	FWR DC	Filtered DC	Sync. with MDL module
<b>Notes:</b>				
1) All current draws are shown in milliamperes and reflect worst case average.				
2) Nominal operating voltages shown.				
3) Refer to manufacturer's installation instructions for more information.				
4) <b>SpectrAlert Advance</b> devices can be used only with Panel LISTED (8 <sup>th</sup> and 9 <sup>th</sup> Edition) for use with this Series Notification Appliance; all the models with suffix "A" are marketed for Canada.				
System Sensor SP2R24110 SpectrAlert Speaker Strobe <sup>3</sup>	24 VDC†	220*	169†	Yes†
System Sensor SP101R24LO Speaker/Strobe, 5" square grille	24 VDC†	45†	25†	N/A
System Sensor SP101R24M Speaker/Strobe, 5" square grille	24 VDC†	125†	75†	N/A
System Sensor SP100W24LOC Ceiling Speaker/Strobe, 8" round grille	24 VDC†	45†	25†	N/A
System Sensor SP100W24MC Ceiling Speaker/Strobe, 8" round grille	24 VDC†	125†	75†	N/A
System Sensor SPH-15R Supervized Horn Loudspeaker	25V,70V	*	*	N/A
System Sensor SS24 Strobe	24 VDC	*	30	N/A
System Sensor SS2415ADA Signaling Strobe	24 VDC	90	75	N/A
System Sensor SS2415ADAS Signaling Strobe with Synch. Circuit	24 VDC	125	106	N/A
System Sensor SS241575ADA Signaling Strobe	24 VDC	120	93	N/A
System Sensor SS241575ADAS Signaling Strobe with Synch. Circuit	24 VDC	180	115	N/A
System Sensor SS2475ADA Signaling Strobe	24 VDC	200	170	N/A
System Sensor SS24110ADA Signaling Strobe	24 VDC	245	210	N/A
System Sensor SS24LO Strobe	24 VDC	45	25	N/A
System Sensor SS24LOC Ceiling Strobe (SS24LOBC - beige)	24 VDC	45	25	N/A
System Sensor SS24M Strobe	24 VDC	125	75	N/A
System Sensor SS24MC Ceiling Strobe	24 VDC	125	75	N/A
System Sensor SSM24-6 Alarm Bell	24 VDC	60	120	N/A
System Sensor SSM24-6A Alarm Bell (ULC)	24 VDC	60	120	N/A
System Sensor SSM24-8 Alarm Bell	24 VDC	60	120	N/A
System Sensor SSM24-8A Alarm Bell (ULC)	24 VDC	60	120	N/A
System Sensor SSM24-10 Alarm Bell	24 VDC	60	120	N/A
System Sensor SSM24-10A Alarm Bell (ULC)	24 VDC	60	120	N/A
System Sensor V4R2415ADA Speaker/Signaling Strobe	24 VDC†	90†	75†	N/A
System Sensor V4R241575ADA Speaker/Signaling Strobe	24 VDC†	120†	93†	N/A
System Sensor V4R2475ADA Speaker/Signaling Strobe	24 VDC†	200†	170†	N/A
System Sensor V4R24110ADA Speaker/Signaling Strobe	24 VDC†	245†	210†	N/A

\* Contact manufacturer for current draws.

† The strobe portion

UL 464 directional Sounder, supplemental notification appliance. The directional sounder can be installed in systems using 24 Volt DC regulated power supplies only. It is not approved for use with FWR unregulated power supplies.

**Table 7: System Sensor Directional Sounder Notification Appliances  
(Supplemental use only with AFP-300/400, NFS-640, AM-2020/AFP-1010, NFS-3030, NFS2-3030, NFS-320, and NFS2-640 Panels)**

System Sensor	Rated Voltage <sup>2</sup>	FWR DC	Filtered DC	Sync. with MDL module
<b>Notes:</b> 1) All current draws are shown in milliamperes and reflect worst case average. 2) Nominal operating voltages shown. 3) Refer to manufacturer's installation instructions for more information.				
System Sensor PF24 Exit Point directional sounder	24 VDC	N/A	225 max	N/A
System Sensor PF24V Exit Point directional sounder with Voice Messaging	24 VDC	N/A	185 max	N/A

Control panels with notification circuits supplied by special purpose (FWR, filtered) power must use appliances listed in Table 8.

**Table 8: Gentex Notification Appliances (UL Listed) (1 of 3)**

Gentex	Rated Voltage <sup>2</sup>	FWR DC	Filtered DC	Sync. Module
<b>Notes:</b> 1) All current draws are shown in milliamperes and reflect worst case average. 2) Nominal operating voltages shown. 3) Refer to manufacturer's installation instructions for more information.				
Gentex GEC-24-15 Strobe/Horn (ULC)	24 VDC	101	91*	AVS44
Gentex GEC-24-30 Strobe/Horn (ULC)	24 VDC	125*	104*	AVS44
Gentex GEC-24-60 Strobe/Horn (ULC)	24 VDC	154*	133*	AVS44
Gentex GEC-24-75 Strobe/Horn (ULC)	24 VDC	164*	142*	AVS44
Gentex GEC-24-110 Strobe/Horn (ULC)	24 VDC	188*	165*	AVS44
Gentex GEC-24-15/75W Strobe/Horn (ULC)	24 VDC	125 max*		AVS44
Gentex GEH-24-W Horn Comander <sup>2</sup> (ULC)	24 VDC	62*	56*	AVS44
Gentex GES-24-15 Strobe (ULC)	24 VDC	67*	54*	AVS44
Gentex GES-24-30 Strobe (ULC)	24 VDC	91*	67*	AVS44
Gentex GES-24-60 Strobe (ULC)	24 VDC	120*	96*	AVS44
Gentex GES-24-75 Strobe (ULC)	24 VDC	130*	105*	AVS44
Gentex GES-24-110 Strobe (ULC)	24 VDC	188*	128*	AVS44
Gentex GES-24-15/75W Strobe (ULC)	24 VDC	63*		AVS44
Gentex GMH-24 Electro-Mechanical Horn	24 VDC	38	38	ZMS4
Gentex GMS-24-15 Electro-Mechanical Horn with Strobe	24 VDC	148	124	ZMS4
Gentex GMS-24-15-1 Electro-Mechanical Horn with Strobe	24 VDC	138	129	ZMS4
Gentex GMS-24-1575-1 Electro-Mechanical Horn with Strobe	24 VDC	218	173	ZMS4
Gentex GMS-24-3075 Electro-Mechanical Horn with Strobe	24 VDC	262	203	ZMS4
Gentex GMS-24-110 Electro-Mechanical Horn with Strobe	24 VDC	115	131	ZMS4
Gentex GMS-24-110-1 Electro-Mechanical Horn with Strobe	24 VDC	348	278	ZMS4
Gentex GMS24-30W Horn Strobe <sup>3</sup>	24 VDC	257	198	ZMS4
Gentex GMS24-60W Horn Strobe <sup>3</sup>	24 VDC	213	166	ZMS4
Gentex GOS-24-15-1 Multi-Tone Horn/Strobe	24 VDC	174	150	AVS44
Gentex GOS-24-1575-1 Multi-Tone Horn/Strobe	24 VDC	299	199	AVS44
Gentex GOS-24-3075-1 Multi-Tone Horn/Strobe	24 VDC	229	288	AVS44
Gentex GOS-24-110-1 Multi-Tone Horn/Strobe	24 VDC	374	304	AVS44
Gentex GOT-24 Multi-Tone Horn	24 VDC	64	64	AVS44
Gentex GX-90-4 Horn	24 VDC	18	18	N/A

**Table 8: Gentex Notification Appliances (UL Listed) (2 of 3)**

Gentex	Rated Voltage <sup>2</sup>	FWR DC	Filtered DC	Sync. Module
<b>Notes:</b>				
1) All current draws are shown in milliamperes and reflect worst case average.				
2) Nominal operating voltages shown.				
3) Refer to manufacturer's installation instructions for more information.				
Gentex GX90S-4-15 Horn with Strobe	24 VDC	78	57	N/A
Gentex GX90S-4-15-1 Horn with Strobe	24 VDC	120	104	N/A
Gentex GX90S-4-1575 Horn with Strobe	24 VDC	193	153	N/A
Gentex GX90S-4-110 Horn with Strobe	24 VDC	158	123	N/A
Gentex GX90S-4-110-1 Horn with Strobe	24 VDC	338	258	N/A
Gentex GX-90S-4RL and -4BL Horn with Strobe	24 VDC	*	*	N/A
Gentex GX-90S-4RH and -4BH Horn with Strobe	24 VDC	*	*	N/A
Gentex GXS-4-15 Strobe	24 VDC	110	86	ZMS4
Gentex GXS-4-15-1 Strobe	24 VDC	110	86	ZMS4
Gentex GXS-4-1575 Strobe	24 VDC	180	135	ZMS4
Gentex GXS-4-30 Strobe	24 VDC	224	165	ZMS4
Gentex GXS-4-60 Strobe	24 VDC	180	130	ZMS4
Gentex GXS-4-3075 Strobe	24 VDC	224	165	ZMS4
Gentex GXS-4-110 Strobe	24 VDC	310	240	ZMS4
Gentex GXS-4-110-1 Strobe	24 VDC	310	240	ZMS4
Gentex GXS-4RH, 4BH, 4RL, 4BL Strobes	24 VDC	*	*	ZMS4
Gentex HG24 Electronic Horn	24 VDC	26	21	AVS44
Gentex HS24-15 Multi-Tone Horn/Strobe (ULC)	24 VDC	101	89	AVS44
Gentex HS24-15/75 Multi-Tone Horn/Strobe (ULC)	24 VDC	120	104	AVS44
Gentex HS24-30 Multi-Tone Horn/Strobe (ULC)	24 VDC	120	104	AVS44
Gentex HS24-60 Multi-Tone Horn/Strobe (ULC)	24 VDC	162	135	AVS44
Gentex HS24-110 Multi-Tone Horn/Strobe (ULC)	24 VDC	185	156	AVS44
Gentex HS24-30W Horn Strobe <sup>3</sup> (ULC)	24 VDC	106	92	AVS44
Gentex HS24-60W Horn Strobe <sup>3</sup> (ULC)	24 VDC	154	125	AVS44
Gentex HS24-75W Horn Strobe <sup>3</sup> (ULC)	24 VDC	161	128	AVS44
Gentex HS24-110W Horn Strobe <sup>3</sup> (ULC)	24 VDC	179	146	AVS44
Gentex SHG-24L Electronic Horn with Strobe	24 VDC	*	*	AVS44
Gentex SHG-24H Electronic Horn with Strobe	24 VDC	*	*	AVS44
Gentex SHG24-15 Electronic Horn with Strobe	24 VDC	136	107	AVS44
Gentex SHG24-15-1 Electronic Horn with Strobe	24 VDC	166	141	AVS44
Gentex SHG24-1575 Electronic Horn with Strobe	24 VDC	206	156	AVS44
Gentex SHG24-30 Electronic Horn with Strobe	24 VDC	224	165	AVS44
Gentex SHG24-60 Electronic Horn with Strobe	24 VDC	180	130	AVS44
Gentex SHG24-3075 Electronic Horn with Strobe	24 VDC	250	191	AVS44
Gentex SHG24-110 Electronic Horn with Strobe	24 VDC	146	161	AVS44
Gentex SHG24-110-1 Electronic Horn with Strobe	24 VDC	336	261	AVS44
Gentex SPK4-15 Speaker with Strobe	24 VDC <sup>†</sup>	110‡	86‡	N/A
Gentex SPK4-15-1 Speaker with Strobe	24 VDC <sup>†</sup>	100‡	86‡	N/A
Gentex SPK4-24-3075 Speaker with Strobe	24 VDC <sup>†</sup>	224‡	165‡	N/A
Gentex SPK4-1575 Speaker with Strobe	24 VDC <sup>†</sup>	140‡	120‡	N/A
Gentex SPK4-110 Speaker with Strobe	24 VDC <sup>†</sup>	310‡	240‡	N/A
Gentex SPK4-110-1 Speaker with Strobe	24 VDC <sup>†</sup>	310‡	240‡	N/A
Gentex SPK8-15 Speaker with Strobe	24 VDC <sup>†</sup>	110‡	86‡	N/A
Gentex SPK8-15-1 Speaker with Strobe	24 VDC <sup>†</sup>	110‡	86‡	N/A
Gentex SPK8-1575 Speaker with Strobe	24 VDC <sup>†</sup>	140‡	120‡	N/A
Gentex SPK8-110 Speaker with Strobe	24 VDC <sup>†</sup>	310‡	240‡	N/A
Gentex SPK8-24-3075 Speaker with Strobe	24 VDC <sup>†</sup>	224‡	165‡	N/A
Gentex SPK8-110-1B Speaker with Strobe	24 VDC <sup>†</sup>	310‡	240‡	N/A
Gentex SPKE4 Speaker	N/A	*	*	N/A
Gentex SPKE8 Speaker	N/A	*	*	N/A
Gentex SPKE4-15-1 Speaker with strobe	24 VDC <sup>†</sup>	100‡	86‡	AVS44 <sup>†</sup>
Gentex SPKE4-15/75 Speaker with strobe	24 VDC <sup>†</sup>	125‡	105‡	AVS44 <sup>†</sup>

**Table 8: Gentex Notification Appliances (UL Listed) (3 of 3)**

Gentex	Rated Voltage <sup>2</sup>	FWR DC	Filtered DC	Sync. Module
<b>Notes:</b>				
1) All current draws are shown in milliamperes and reflect worst case average.				
2) Nominal operating voltages shown.				
3) Refer to manufacturer's installation instructions for more information.				
Gentex SPKE4-15/75-C Speaker with strobe	24 VDC†	125‡	237‡	AVS44†
Gentex SPKE4-30W Speaker Strobe <sup>3</sup>	24 VDC†	140‡	105‡	AVS44†
Gentex SPKE4-30/75 Speaker with strobe	24 VDC†	224‡	165‡	AVS44†
Gentex SPKE4-60 Speaker with strobe	24 VDC†	*	36‡	AVS44†
Gentex SPKE4-60W Speaker Strobe <sup>3</sup>	24 VDC†	180‡	130‡	AVS44†
Gentex SPKE4-110-1 Speaker with strobe	24 VDC†	298‡	105‡	AVS44†
Gentex SPKE8-15-1 Speaker with strobe	24 VDC†	100‡	78‡	AVS44†
Gentex SPKE8-15/75 Speaker with strobe	N/A	125‡	105‡	N/A
Gentex SPKE8-30W Speaker Strobe <sup>3</sup>	24 VDC†	140‡	105‡	AVS44†
Gentex SPKE8-30/75 Speaker with strobe	24 VDC†	193‡	142‡	AVS44†
Gentex SPKE8-15/75-C Speaker	24 VDC†	125‡	105‡	AVS44†
Gentex SPKE8-1575W Speaker Strobe <sup>3</sup>	24 VDC	140‡	105‡	AVS44
Gentex SPKE8-60 Speaker with strobe	24 VDC	*	*	AVS44
Gentex SPKE8-110-1 Speaker with strobe	24 VDC	310‡	240‡	AVS44
Gentex ST24-15 Strobe (ULC)	24 VDC	73	54	AVS44
Gentex ST24-15/75 Strobe (ULC)	24 VDC	92	69	AVS44
Gentex ST24-30 Strobe (ULC)	24 VDC	92	69	AVS44
Gentex ST24-60 Strobe (ULC)	24 VDC	134	100	AVS44
Gentex ST24-110 Strobe (ULC)	24 VDC	157	121	AVS44
Gentex ST24-30W Strobe <sup>3</sup> (ULC)	24 VDC	84	67	AVS44
Gentex ST24-75W Strobe <sup>3</sup> (ULC)	24 VDC	139	103	AVS44
Gentex ST24-110W Strobe <sup>3</sup> (ULC)	24 VDC	157	121	AVS44
Gentex WGMS-24-75 Weatherproof Electro-Mechanical Horn with Strobe	24 VDC	153	153	ZMS4

\* Contact manufacturer for current draws.

† The strobe portion

Control panels with notification circuits supplied by special purpose (FWR, filtered) power must use appliances listed in Table 9.

**Table 9: Wheelock Notification Appliances (UL Listed) (1 of 5)**

Wheelock	Rated Voltage <sup>2</sup>	FWR DC	Filtered DC	Sync. Module
<b>Notes:</b>				
1) All current draws are shown in milliamperes and reflect worst case average.				
2) Nominal operating voltages shown.				
3) Refer to manufacturer's installation instructions for more information.				
Wheelock 7002T-24 Horn with Strobe	24 VDC	*	*	N/A
Wheelock AES-DL1-LSM-24 Horn Strobe	24 VDC	*	*	N/A
Wheelock AES-DL1-WM-24-VF-R MultiTone Signals (ULC)	24 VDC	*	*	N/A
Wheelock AES-EL1-LSM-24 Horn Strobe	24 VDC	*	*	N/A
Wheelock AES-EL1-WM-24-VF-R Multitone Signals	24 VDC	*	*	N/A
Wheelock AH-24 Horn (ULC)	24 VDC	*	*	N/A
Wheelock AH-24WP Horn (ULC)	24 VDC	*	*	N/A
Wheelock AMT-24 Multitone Horn (ULC)	24 VDC	48	48	N/A
Wheelock AMT-2475-FR Horn Strobe (ULC)	24 VDC	261 max*	267 max*	N/A
Wheelock AMT-24-IS-VFR Multitone Horn Strobe	24 VDC	348	323	N/A
Wheelock AMT-24-LS-VFR Multitone Horn Strobe (ULC)	24 VDC	143	138	N/A
Wheelock AMT-24-LSM-VFR Multitone Horn Strobe	24 VDC	188	178	N/A
Wheelock AS-2415 Audible Strobe	24 VDC	140	104	SM/DSM
Wheelock AS-2415C Horn/Strobe (ULC)	24 VDC	167	126	SM/DSM
Wheelock AS-2415W Horn/Strobe (ULC)	24 VDC	95	134	SM/DSM
Wheelock AS-241575 Audible Strobe	24 VDC	162	121	SM/DSM
Wheelock AS-241575W Horn/Strobe	24 VDC	110	147	SM/DSM
Wheelock AS-2430 Audible Strobe	24 VDC	190	148	SM/DSM
Wheelock AS-2430C Horn/Strobe	24 VDC	220	186	SM/DSM
Wheelock AS-2430W Horn/Strobe	24 VDC	135	177	SM/DSM
Wheelock AS-2475 Audible Strobe	24 VDC	295	299	SM/DSM
Wheelock AS-2475C Horn/Strobe (ULC)	24 VDC	432	340	SM/DSM
Wheelock AS-2475W Horn/Strobe (ULC)	24 VDC	211	283	SM/DSM
Wheelock AS-24100C Horn/Strobe (ULC)	24 VDC	486	417	SM/DSM
Wheelock AS-24110 Audible Strobe	24 VDC	443	333	SM/DSM
Wheelock AS-24110W Horn/Strobe (ULC)	24 VDC	242	326	SM/DSM
Wheelock AS-24MCC Multi-Candela Audible Strobe	24 VDC	424 max*	330 max*	SM/DSM <sup>†</sup>
Wheelock AS-24MCW Audible Strobe Multi-Candela (ULC)	24 VDC	414 max*	280 max*	SM/DSM
Wheelock ASWP-2475W Horn/Strobe	24 VDC	187	186	SM/DSM
Wheelock CH-CF1-LS-24-CFW Chime	24 VDC	101	100	SM/DSM
Wheelock CH-CF1-MS-24-CFW Chime	24 VDC	155	155	SM/DSM
Wheelock CH-CF1-IS-24-CFW Chime	24 VDC	273	260	SM/DSM
Wheelock CH-DF1-LS-24-VFR Chime	24 VDC	101	100	SM/DSM
Wheelock CH-DF1-LSM-24-VFR Chime	24 VDC	145	120	SM/DSM
Wheelock CH-DF1-MS-24-VFR Chime	24 VDC	155	155	SM/DSM
Wheelock CH-DF1-IS-24-VFR Chime	24 VDC	273	260	SM/DSM
Wheelock CH70-24 Chime	24 VDC	22	22	SM/DSM
Wheelock CH70-2415W Chime with Strobe	24 VDC	105	85	SM/DSM
Wheelock CH70-241575 Chime with Strobe	24 VDC	127	102	SM/DSM
Wheelock CH70-2430 Chime with Strobe	24 VDC	153	122	SM/DSM
Wheelock CH70-2475 Chime with Strobe	24 VDC	239	187	SM/DSM
Wheelock CH70-24MCW-FR/W Multi-Candela Chime with Strobe	24 VDC	392 max*	257 max*	SM/DSM
Wheelock CH90-24 Chime	24 VDC	22	22	SM/DSM
Wheelock CH90-24MCC-FW Multi-Candela Chime with Strobe	24 VDC	422 max*	314 max*	SM/DSM <sup>†</sup>
Wheelock CH90-2475C Chime with Strobe	24 VDC	259	251	SM/DSM
Wheelock CH90-24100C Chime with Strobe	24 VDC	318	314	SM/DSM
Wheelock DSM-12/24 Dual Synchronization Module	12 VDC/ 24 VDC	38/82	20/50	N/A
Wheelock E60 Speaker	25/70 Vrms	*	*	N/A

**Table 9: Wheelock Notification Appliances (UL Listed) (2 of 5)**

Wheelock	Rated Voltage <sup>2</sup>	FWR DC	Filtered DC	Sync. Module
<b>Notes:</b>				
1) All current draws are shown in milliamperes and reflect worst case average.				
2) Nominal operating voltages shown.				
3) Refer to manufacturer's installation instructions for more information.				
Wheelock E60-24MCC-FR/W Multi-Candela Strobe with Speaker	24 VDC <sup>†</sup>	375max‡	249max‡	SM/DSM
Wheelock E60-24MCCH-RR/W Multi-Candela Strobe with Speaker	24 VDC <sup>†</sup>	645max‡	420max‡	SM/DSM
Wheelock E70 Speaker	N/A	*	*	N/A
Wheelock E70-24MCW Multi-Candela Strobe with Speaker	24 VDC <sup>†</sup>	370 max*	235 max*	SM/DSM <sup>†</sup>
Wheelock E70-2415W Speaker with Strobe	24 VDC <sup>†</sup>	83‡	63‡	SM/DSM <sup>†</sup>
Wheelock E70-241575W Speaker with Strobe	24 VDC <sup>†</sup>	105‡	80‡	SM/DSM <sup>†</sup>
Wheelock E70-2430W Speaker with Strobe	24 VDC <sup>†</sup>	131‡	100‡	SM/DSM <sup>†</sup>
Wheelock E70-2475W Speaker with Strobe	24 VDC <sup>†</sup>	217‡	165‡	SM/DSM <sup>†</sup>
Wheelock E70-24110W Speaker with Strobe	24 VDC <sup>†</sup>	274‡	209‡	SM/DSM <sup>†</sup>
Wheelock E70-24185W-FR Speaker with Strobe	24 VDC <sup>†</sup>	835 max*	545 max*	SM/DSM <sup>†</sup>
Wheelock E-70-IS-24 Low Profile Speaker/Strobe	24 VDC <sup>†</sup>	235‡	240‡	SM/DSM <sup>†</sup>
Wheelock E-70-LS-24 Low Profile Speaker/Strobe	24 VDC <sup>†</sup>	91‡	80‡	SM/DSM <sup>†</sup>
Wheelock E-70-LSM-24 Low Profile Speaker/Strobe	24 VDC <sup>†</sup>	125‡	115‡	SM/DSM <sup>†</sup>
Wheelock E-70-MS-24 Low Profile Speaker/Strobe	24 VDC <sup>†</sup>	135‡	135‡	SM/DSM <sup>†</sup>
Wheelock E-7025-LS-VFR Speaker with Strobe (ULC)	24 VDC <sup>†</sup>	*	*	SM/DSM <sup>†</sup>
Wheelock E-7025-SLM-VFR Speaker with Strobe	24 VDC <sup>†</sup>	*	*	SM/DSM <sup>†</sup>
Wheelock E-7070-LS-VFR Speaker with Strobe (ULC)	24 VDC <sup>†</sup>	*	*	SM/DSM <sup>†</sup>
Wheelock E-7070-SLM-VFR Speaker with Strobe	24 VDC <sup>†</sup>	*	*	SM/DSM <sup>†</sup>
Wheelock E90 Speaker	N/A	*	*	N/A
Wheelock E90-2415C Speaker with Strobe	24 VDC <sup>†</sup>	108‡	83‡	SCM-24 <sup>†</sup>
Wheelock E90-2430C Speaker with Strobe	24 VDC <sup>†</sup>	165‡	126‡	SCM-24 <sup>†</sup>
Wheelock E90-2475C Speaker with Strobe	24 VDC <sup>†</sup>	338‡	260‡	SCM-24 <sup>†</sup>
Wheelock E90-24100C Speaker with Strobe	24 VDC <sup>†</sup>	400‡	300‡	SCM-24 <sup>†</sup>
Wheelock E90-W Speaker	N/A	*	*	N/A
Wheelock E-90-IS-24 Low Profile Speaker/Strobe	24 VDC <sup>†</sup>	253‡	240‡	SM/DSM <sup>†</sup>
Wheelock E-90-LS-24 Low Profile Speaker/Strobe	24 VDC <sup>†</sup>	91‡	80‡	SM/DSM <sup>†</sup>
Wheelock E-90-MS-24 Low Profile Speaker/Strobe	24 VDC <sup>†</sup>	135‡	135‡	SM/DSM <sup>†</sup>
Wheelock E90-24MCC-FW Multi-Candela Speaker Strobe (ULC)	24 VDC <sup>†</sup>	292 max*	400 max*	SM/DSM <sup>†</sup>
Wheelock E-9025-LS-CFW Speaker with Strobe (ULC)	24 VDC <sup>†</sup>	*	*	SCM-24 <sup>†</sup>
Wheelock E-9070-LS-CFW Speaker with Strobe (ULC)	24 VDC <sup>†</sup>	*	*	SCM-24 <sup>†</sup>
Wheelock EH-EL1-WM-24-VF-R Electronic Horn Strobes (ULC)	24 VDC	*	*	SM/DSM
Wheelock EH-DL1-WM-24-VF-R Electronic Horn Strobes (ULC)	24 VDC	*	*	SM/DSM
Wheelock ET70 Low Profile Speaker with Strobe	N/A	*	*	N/A
Wheelock ET70-2415W Speaker with Strobe	24 VDC <sup>†</sup>	83‡	63‡	SM/DSM <sup>†</sup>
Wheelock ET70-241575W Speaker with Strobe	24 VDC <sup>†</sup>	105‡	80‡	SM/DSM <sup>†</sup>
Wheelock ET70-2430W Speaker with Strobe	24 VDC <sup>†</sup>	131‡	100‡	SM/DSM <sup>†</sup>
Wheelock ET70-2475W Speaker with Strobe	24 VDC <sup>†</sup>	217‡	165‡	SM/DSM <sup>†</sup>
Wheelock ET70-24110W Speaker with Strobe	24 VDC <sup>†</sup>	274‡	209‡	SM/DSM <sup>†</sup>
Wheelock ET70-24185W-FR Speaker with Strobe	24 VDC <sup>†</sup>	820 max*	545 max*	SM/DSM <sup>†</sup>
Wheelock ET70-24MCW-FR/W Speaker with Strobe	24 VDC <sup>†</sup>	370 max*	234 max*	SM/DSM <sup>†</sup>
Wheelock ET90 Low Profile Speaker with Strobe	N/A	*	*	SM/DSM <sup>†</sup>
Wheelock ET90-24MCC-FW Multi-Candela Speaker Strobe (ULC)	24 VDC <sup>†</sup>	292 max*	400 max*	SM/DSM <sup>†</sup>
Wheelock ET90-2415C Low Profile Speaker with Strobe	24 VDC <sup>†</sup>	108‡	83‡	SM/DSM <sup>†</sup>
Wheelock ET90-2430C Low Profile Speaker with Strobe	24 VDC <sup>†</sup>	165‡	126‡	SM/DSM <sup>†</sup>
Wheelock ET90-2475C Low Profile Speaker with Strobe	24 VDC <sup>†</sup>	338‡	260‡	SM/DSM <sup>†</sup>
Wheelock ET90-24100C Low Profile Speaker with Strobe	24 VDC <sup>†</sup>	400‡	300‡	SM/DSM <sup>†</sup>
Wheelock ET-1070-IS-24-VFR Speaker with Strobe	24 VDC <sup>†</sup>	200‡	233‡	SM/DSM <sup>†</sup>
Wheelock ET-1070-LS-24-VFR Speaker with Strobe (ULC)	24 VDC <sup>†</sup>	100‡	96‡	SM/DSM <sup>†</sup>
Wheelock ET-1070-LSM-24-VFR Speaker with Strobe	24 VDC <sup>†</sup>	100‡	125‡	SM/DSM <sup>†</sup>
Wheelock ET-1070-MS-24-VFR Speaker with Strobe	24 VDC <sup>†</sup>	124‡	135‡	SM/DSM <sup>†</sup>
Wheelock ET-1070-LS-VFR Speaker with Strobe	24 VDC <sup>†</sup>	100‡	96‡	SM/DSM <sup>†</sup>
Wheelock ET-1070-SLM-VFR Speaker with Strobe	24 VDC <sup>†</sup>	150‡	138‡	SM/DSM <sup>†</sup>

**Table 9: Wheelock Notification Appliances (UL Listed) (3 of 5)**

Wheelock	Rated Voltage <sup>2</sup>	FWR DC	Filtered DC	Sync. Module
<b>Notes:</b>				
1) All current draws are shown in milliamperes and reflect worst case average.				
2) Nominal operating voltages shown.				
3) Refer to manufacturer's installation instructions for more information.				
Wheelock ET-1080-IS-24-VFR Speaker with Strobe	24 VDC <sup>†</sup>	200‡	233‡	SM/DSM <sup>†</sup>
Wheelock ET-1080-LS-24-VFR Speaker with Strobe (ULC)	24 VDC <sup>†</sup>	100‡	96‡	SM/DSM <sup>†</sup>
Wheelock ET-1080-LSM-24-VFR Speaker with Strobe	24 VDC <sup>†</sup>	125‡	115‡	SM/DSM <sup>†</sup>
Wheelock ET-1080-MS-24-VFR Speaker with Strobe	24 VDC <sup>†</sup>	124‡	135‡	SM/DSM <sup>†</sup>
Wheelock ET-1080-SL-VFR Speaker with Strobe	24 VDC <sup>†</sup>	100‡	96‡	SM/DSM <sup>†</sup>
Wheelock ET-1080-SLM-VFR Speaker with Strobe	24 VDC <sup>†</sup>	150‡	138‡	SM/DSM <sup>†</sup>
Wheelock ET-1090-IS-24-CFW Speaker with Strobe (ULC)	24 VDC <sup>†</sup>	200‡	233‡	SM/DSM <sup>†</sup>
Wheelock ET-1090-LS-24-CFW Speaker with Strobe (ULC)	24 VDC <sup>†</sup>	100‡	96‡	SM/DSM <sup>†</sup>
Wheelock ET-1090-MS-24-CFW Speaker with Strobe (ULC)	24 VDC <sup>†</sup>	124‡	135‡	SM/DSM <sup>†</sup>
Wheelock ET-1090-SL-24-CFW Speaker with Strobe (ULC)	24 VDC <sup>†</sup>	100‡	96‡	SM/DSM <sup>†</sup>
Wheelock HS-24-MCW Multi-Candela Horn/Strobe (ULC)	24 VDC <sup>†</sup>	416 max*	300 max*	SM/DSM <sup>†</sup>
Wheelock HS4-241575W Horn Strobe (ULC)	24 VDC <sup>†</sup>	239 max*	200 max*	SM/DSM <sup>†</sup>
Wheelock HS4-24MCW FR Horn Strobe (ULC)	24 VDC <sup>†</sup>	441 max*	330 max*	SM/DSM <sup>†</sup>
Wheelock HS4-24MCWH Horn High intensity Strobe (ULC)	24 VDC	739 max*	530 max*	SM/DSM
Wheelock HSPW-24-HFR Strobe	24 VDC	280	280	N/A
Wheelock HSW-24-HFR Strobe	24 VDC	280	280	N/A
Wheelock HS2W-HFR Strobe	24 VDC	280	280	N/A
Wheelock IS-24-VFR Strobe	24 VDC	253	240	N/A
Wheelock IS1-24-VFR Strobe	24 VDC	253	240	N/A
Wheelock IS3-24-VFR Strobe	24 VDC	253	240	N/A
Wheelock ISP-24-VFR Strobe	24 VDC	253	240	N/A
Wheelock LS-24-VFR Strobe	24 VDC	91	80	N/A
Wheelock LSM-24-VFR Strobe	24 VDC	125	115	N/A
Wheelock LS1-24-VFR Strobe	24 VDC	91	80	N/A
Wheelock LS1M-24-VFR Strobe	24 VDC	91	80	N/A
Wheelock LSP-24-HFR Strobe	24 VDC	91	80	N/A
Wheelock LSPM-24-VFR Strobe	24 VDC	125	115	N/A
Wheelock LS3-24-VFR Strobe	24 VDC	91	80	N/A
Wheelock LS3M-24-VFR Strobe	24 VDC	91	80	N/A
Wheelock MB-G6-24-R Motor Bell, 6" gong	24 VDC	56	40	N/A
Wheelock MB-G10-24-R Motor Bell, 10" gong	24 VDC	56	40	N/A
Wheelock MBS-G6-24-R Motor Bell/Strobe, 6" gong	24 VDC	56	40	N/A
Wheelock MBS-G10-24-R Motor Bell/Strobe, 10" gong	24 VDC	56	40	N/A
Wheelock MIZ-24 MiniPiezo Horn (ULC)	24 VDC	*	12	N/A
Wheelock MIZ-24-HSW-HFR Mini-Horn Strobe	24 VDC	292	292	N/A
Wheelock MIZ-24-IS-VFR Mini-Horn Strobe	24 VDC	265	252	N/A
Wheelock MIZ-24-LS-VFR Mini-Horns Strobe	24 VDC	103	92	N/A
Wheelock MIZ-24-LSM-VFR Mini-Horn Strobe	24 VDC	136	122	N/A
Wheelock MIZ-24-MS-VFR Mini-Horn Strobe	24 VDC	147	147	N/A
Wheelock MIZ-24-WM-VFR Mini-Horns Strobe	24 VDC	*	*	N/A
Wheelock Miz-24S-R/W MiniPiezo Horn (ULC)	24 VDC	43	31	SM/DSM
Wheelock MIZ-TC24- Mini Horn (ULC)	24 VDC	41	21	N/A
Wheelock MS-24-VFR Strobe	24 VDC	125	115	N/A
Wheelock MSP-24-HFR Strobe	24 VDC	135	135	N/A
Wheelock MS1-24-VFR Strobe	24 VDC	125	115	N/A
Wheelock MS3-24-VFR Strobe	24 VDC	125	115	N/A
Wheelock MT-24-R Multitone (ULC)	24 VDC	48	48	N/A
Wheelock MT-24-IS-VFR Multitone Strobe	24 VDC	301	288	SM/DSM
Wheelock MT-24-LS-VFR Multitone Strobe	24 VDC	139	128	SM/DSM
Wheelock MT-24-LSM-VFR Multitone Strobe	24 VDC	173	148	SM/DSM
Wheelock MT-24-MS-VFR Multitone Strobe	24 VDC	183	183	SM/DSM
Wheelock MT-24-SL-VFR Multitone/Strobe	24 VDC	100	96	SM/DSM

**Table 9: Wheelock Notification Appliances (UL Listed) (4 of 5)**

Wheelock	Rated Voltage <sup>2</sup>	FWR DC	Filtered DC	Sync. Module
<b>Notes:</b>				
1) All current draws are shown in milliamperes and reflect worst case average.				
2) Nominal operating voltages shown.				
3) Refer to manufacturer's installation instructions for more information.				
Wheelock MT-24-SLM-VFR Multitone/Strobe	24 VDC	150	138	SM/DSM
Wheelock MT-24-WM Multitone Strobe117cd	24 VDC	136*	71*	SM/DSM
Wheelock MT-24-WM-VF-R Multitone 117cd	24 VDC	136*	71*	SM/DSM
Wheelock MT4-24-IS-VFR Multitone Strobe	24 VDC	301	208	SM/DSM
Wheelock MT4-24-LS-VFR Multitone Strobe	24 VDC	139	128	SM/DSM
Wheelock MT4-24-LSM-VFR Multitone Strobe	24 VDC	173	148	SM/DSM
Wheelock MT4-24-MS-VFR Multitone Strobe	24 VDC	183	183	SM/DSM
Wheelock NS-2415W-FR Horn Strobe	24 VDC	101	82	SM/DSM
Wheelock NS-241575W-FR Horn Strobe	24 VDC	124	99	SM/DSM
Wheelock NS-2430W-FR Horn Strobe	24 VDC	137	114	SM/DSM
Wheelock NS-2475W-FR Horn Strobe	24 VDC	235	186	SM/DSM
Wheelock NS-24110W-FR Horn Strobe	24 VDC	282	230	SM/DSM
Wheelock NS-24MCW-FR Horn Strobe (ULC)	24 VDC	373 max*	256 max*	SM/DSM
Wheelock NS4-2415W-FR Horn Strobe	24 VDC	137	103	SM/DSM
Wheelock NS4-241575W-FR Horn	24 VDC	166	120	SM/DSM
Wheelock NS4-2430W-FR Horn Strobe	24 VDC	188	136	SM/DSM
Wheelock NS4-2475W-FR Horn Strobe	24 VDC	274	201	SM/DSM
Wheelock NS4-24110W-FR Horn Strobe	24 VDC	331	245	SM/DSM
Wheelock NS4-24MCW-FR Horn Strobe (ULC)	24 VDC	516 max*	347 max*	SM/DSM
Wheelock RS-2415 Strobe	24 VDC	91	80	SM/DSM
Wheelock RS-2415W Strobe	24 VDC	*	*	SM/DSM
Wheelock RS-241575 Strobe	24 VDC	125	115	SM/DSM
Wheelock RS-241575W Strobe	24 VDC	*	*	SM/DSM
Wheelock RS-2430 Strobe	24 VDC	135	124	SM/DSM
Wheelock RS-2475 Strobe	24 VDC	258	245	SM/DSM
Wheelock RS-24110 Strobe	24 VDC	400	295	SM/DSM
Wheelock RSS-2415W Strobe	24 VDC	63	83	SM/DSM
Wheelock RSS-241575W Strobe (ULC)	24 VDC	80	105	SM/DSM
Wheelock RSS-2430W Strobe	24 VDC	100	131	SM/DSM
Wheelock RSS-2475W Strobe	24 VDC	165	217	SM/DSM
Wheelock RSS-24110W Strobe	24 VDC	209	274	SM/DSM
Wheelock RSS-2415-CR-FW Strobe (ULC)	24 VDC	108	105	SM/DSM
Wheelock RSS-2430-CR-FW Strobe (ULC)	24 VDC	195	158	SM/DSM
Wheelock RSS-2475-CR-FW Strobe (ULC)	24 VDC	389	330	SM/DSM
Wheelock RSS-24100-CR-FW- Strobe (ULC)	24 VDC	492	375	SM/DSM
Wheelock RSS-24150-CR-FW- Strobe (ULC)	24 VDC	773	506	SM/DSM
Wheelock RSS-24177-CR-FW-Strobe (ULC)	24 VDC	865	570	SM/DSM
Wheelock RSS-24MCC-FR/W Multi-Candela Strobe ceiling (ULC)	24 VDC	400 max*	292 max*	SM/DSM
Wheelock RSS-24MCW-FR/W- Multi-Candela Strobe wall (ULC)	24 VDC	370 max*	235 max*	SM/DSM
Wheelock RSSP-24MCW-FR/W Multi-Candela Strobe (ULC)	24 VDC	370 max*	235 max*	SM/DSM
Wheelock RSSP-2415W Strobe	24 VDC	63	83	SM/DSM
Wheelock RSSP-241575W Strobe (ULC)	24 VDC	80	105	SM/DSM
Wheelock RSSP-2430W Strobe	24 VDC	100	131	SM/DSM
Wheelock RSSP-24185W Speaker with Strobe	24 VDC <sup>†</sup>	865 max*	570 max*	SM/DSM <sup>†</sup>
Wheelock SCM-24-R Synchronized Controller Module	24 VDC	*	*	N/A
Wheelock SHW-24-HFR Strobe	24 VDC	*	*	SCM-24
Wheelock SH2W-24-HFR Strobe	24 VDC	*	*	SCM-24
Wheelock SHPW-24-HFR Strobe	24 VDC	*	*	SCM-24
Wheelock SL-24-VFR Strobe	24 VDC	*	*	SCM-24
Wheelock SL1-24-VFR Strobe	24 VDC	*	*	SCM-24
Wheelock SL3-24-VFR Strobe	24 VDC	*	*	SCM-24
Wheelock SLM-24-VFR Strobe	24 VDC	*	*	SCM-24

**Table 9: Wheelock Notification Appliances (UL Listed) (5 of 5)**

Wheelock	Rated Voltage <sup>2</sup>	FWR DC	Filtered DC	Sync. Module
<b>Notes:</b>				
1) All current draws are shown in milliamperes and reflect worst case average.				
2) Nominal operating voltages shown.				
3) Refer to manufacturer's installation instructions for more information.				
Wheelock SL1M-24-VFR Strobe	24 VDC	*	*	SCM-24
Wheelock SL3M-24-VFR Strobe	24 VDC	*	*	SCM-24
Wheelock SLP-24-VFR Strobe	24 VDC	*	*	SCM-24
Wheelock SLPM-24-VFR Strobe	24 VDC	*	*	SCM-24
Wheelock SM-12/24 Synchronization Module	24 VDC	57	30	N/A
Wheelock STH-15S Loudspeaker	N/A	*	*	N/A
Wheelock SR-2415 Synchronized Strobe	24 VDC	100	96	SCM-24
Wheelock SR-241575 Synchronized Strobe	24 VDC	178	138	SCM-24
Wheelock S25W-Speaker	25 Vrms	*	*	N/A
Wheelock S70W-Speaker	70 Vrms	*	*	N/A
Wheelock ZNH-R Horn	24 VDC	44 max*	75 max*	N/A
Wheelock ZNH-W Horn	24 VDC	44 max*	75 max*	N/A
Wheelock ZNS-MCW-FR Horn Strobe Multi-Candela wall	24 VDC	422max*	264 max*	SM/DSM†
Wheelock ZNS-MCW-FW Horn Strobe Multi-Candela wall	24 VDC	422max*	264 max*	SM/DSM†
Wheelock ZNS-MCWH-FR Horn Strobe Multi-Candela High wall	24 VDC	720 max*	464 max*	SM/DSM†
Wheelock ZNS-MCWH-FW Horn Strobe Multi-Candela High wall	24 VDC	720 max*	464 max*	SM/DSM†
Wheelock ZNS-MCC-FR Horn Strobe Multi-Candela ceiling	24 VDC	450 max*	293 max*	SM/DSM†
Wheelock ZNS-MCC-FW Horn Strobe Multi-Candela ceiling	24 VDC	450 max*	293 max*	SM/DSM†
Wheelock ZNS-MCCH-FR Horn Strobe Multi-Candela High ceiling	24 VDC	720 max*	464 max*	SM/DSM†
Wheelock ZNS-MCCH-FW Horn Strobe Multi-Candela High wall	24 VDC	720 max*	464 max*	SM/DSM†
Wheelock ZRS-MCW-FR Strobe Multi-Candela wall	24 VDC	347max*	220 max*	SM/DSM†
Wheelock ZRS-MCW-FW Strobe Multi-Candela wall	24 VDC	347 max*	220 max*	SM/DSM†
Wheelock ZRS-MCWH-FR Strobe Multi-Candela High wall	24 VDC	645 max*	420 max*	SM/DSM†
Wheelock ZRS-MCWH-FW Strobe Multi-Candela High wall	24 VDC	645 max*	420 max*	SM/DSM†
Wheelock ZRS-MCC-FR Strobe Multi-Candela ceiling	24 VDC	375 max*	249 max*	SM/DSM†
Wheelock ZRS-MCC-FW Strobe Multi-Candela ceiling	24 VDC	375 max*	249 max*	SM/DSM†
Wheelock ZRS-MCCH-FR Strobe Multi-Candela High ceiling	24 VDC	645 max*	420 max*	SM/DSM†
Wheelock ZRS-MCCH-FW Strobe Multi-Candela High ceiling	24 VDC	645 max*	420 max*	SM/DSM†
Wheelock WMT-24-FR, WM1T-24-FR, WM3T-24-FR Strobes	24 VDC	*	*	N/A

\* Contact manufacturer for current draws.

† The strobe portion

Control panels with notification circuits supplied by special purpose (FWR, filtered) power must use appliances listed in the Table 10.

**Table 10: AMSECO Notification Appliances (UL Listed)  
(For use with SFP-5UD/SFP-10UD and RP-2001/RP-2002 Panels Only)**

AMSECO		Rated Voltage <sup>2</sup>	FWR DC	Filtered DC
<b>Notes:</b>				
1) All current draws are shown in milliamperes and reflect worst case average.				
2) Nominal operating voltages shown.				
3) Refer to manufacturer's installation instructions for more information.				
AMSECO Select-A-Horn Series H24W Horn	(ULC)	24 VDC	91 max	70 max
AMSECO Select-A-Strobe SAD24-153075 <sup>†</sup>	(ULC)	24 VDC	164 max	144 max
AMSECO Select-A-Strobe SAD24-75110 <sup>†</sup>	(ULC)	24 VDC	489 max	387 max
AMSECO Select-A-Horn/Strobe Combo SCM24C-3075110		24 VDC	*	*
AMSECO Select-A-Horn/Strobe Combo SCM24C-177		24 VDC	*	*
AMSECO Chime/Select-A-Strobe Combo SCM24W-153075		24 VDC	217 max	155 max
AMSECO Chime/Select-A- Strobe Combo SCM24W-75110		24 VDC	269 max	204 max
AMSECO Select-A-Horn/Strobe Combo SH24W-153075	(ULC)	24 VDC	215 max	164 max
AMSECO Select-A-Horn/Strobe Combo SH24W-75110	(ULC)	24 VDC	285 max	203 max
AMSECO Indoor/Outdoor Horn/Strobe Combo SHB24-75	(ULC)	24 VDC	254 max	195 max
AMSECO Indoor/Outdoor Strobe SLB24-75	(ULC)	24 VDC	223 max	167 max
AMSECO Select-A-Strobe SL24C-3075110	(ULC)	24 VDC	310 max	162 max
AMSECO Select-A-Strobe SL24W-75110	(ULC)	24 VDC	241 max	181 max
AMSECO Retro-fit Select-A-Strobe RSD24-153075 <sup>†</sup>	(ULC)	24 VDC	132 max	105 max
AMSECO Retro-fit Select-A-Strobe RSD24-75110 <sup>†</sup>	(ULC)	24 VDC	489 max	387 max

\* Contact manufacturer for current draws.

† Discontinued product

Control panels with notification circuits supplied by special purpose (FWR, filtered) power must use appliances listed in Table 11.

**Table 11: Faraday Notification Appliances (UL Listed)  
(For use with SFP-5UD/SFP-10UD and RP-2001/RP-2002 Panels Only)**

FARADAY		Rated Voltage <sup>2</sup>	FWR DC	Filtered DC
<b>Notes:</b>				
1) All current draws are shown in milliamperes and reflect worst case average.				
2) Nominal operating voltages shown.				
3) Refer to manufacturer's installation instructions for more information.				
FARADAY Model 2830B-14-24/ 2830B-21-24 Horn		24 VDC	54 max *	54 max *
FARADAY Model 2831B-14-24/ 2831B-21-24 Horn		24 VDC	54 max *	54 max *
FARADAY Model 2834B-14-24/ 2834B-21-24 Horn/Strobe <sup>†</sup>		24 VDC	232 max *	232 max *
FARADAY Model 2836B-14-24/ 2831B-21-24 Horn Outdoor Use		24 VDC	54 max *	54 max *
FARADAY Model 2837B-14-24/ 2834B-21-24 Horn/Strobe Outdoor Use <sup>†</sup>		24 VDC	232 max *	232 max *

\* Contact manufacturer for current draws.

† The strobe portion

**Table 12: UL Listed, Compatible Two-Wire Smoke Detectors' Specifications (1 of 2)**

Model	Detector ID	Detector Type	Base Model	Base ID	Standby Current (µA)
Edwards 6250B	001	Ionization	6251B-001	001	50
Edwards 6264B	001	Ionization	N/A	N/A	50
Edwards 6270B	001	Photoelectric	6251B-001	001	65
Fenwal CPD-7021	I1FE1	Duct	70-211002-000	D22FE1	60
Fenwal CPD-7021	I1FE1	Ionization	70-201000-001 70-201000-002 70-201000-003 70-201000-005	FEO1A FEO2A FEO3A FEO5A	60
Fenwal PSD-7125	P5FE1	Photoelectric	70-201000-001 70-201000-002 70-201000-003 70-201000-005	FEO1A FEO2A FEO3A FEO5A	100
Fenwal PSD-7126	P6FE1	Photo / Thermal	70-201000-001 70-201000-002 70-201000-003 70-201000-005	FEO1A FEO2A FEO3A FEO5A	100
Fenwal PSD-7129	P9FE1	Duct	70-211002-000	D22FE1	100
Hochiki SIH-24F	HD-3	Ionization	HS-22D HS-2-RB YBA-M22 HSB-220 HSB-224	HB-3 HB-10 HB-3 HB-56 HB-53	40
Hochiki SLK-24F/SLK-24FH	HD-3	Photoelectric	HS-22D HS-2-RB YBA-M22 HSB-220 HSB-224	HB-3 HB-10 HB-3 HB-56 HB-53	45
Notifier CP-651	A	Ionization	B401 / B610LP / B616LP	A	120
Notifier SD-651	A	Photoelectric	B401 / B610LP / B616LP	A	120
Simplex 2098-9201	HD-3	Photoelectric	2098-9211	HB-54	45
Simplex 2098-9202	HD-3	Photoelectric	2098-9211	HB-54	45
Simplex 2098-9576	HD-3	Ionization	2098-9211	HB-54	45
System Sensor 2W-B	A	Photoelectric I <sup>3</sup>	N/A	N/A	100
System Sensor 2WT-B	A	Photoelectric I <sup>3</sup>	N/A	N/A	100
System Sensor DH100P	A	Photoelectric	N/A	N/A	120
System Sensor DH100LP	A	Photoelectric	N/A	N/A	120
System Sensor 1100/D*	A	Ionization	N/A	N/A	100
System Sensor 1400	A	Ionization	N/A	N/A	100
System Sensor 1451	A	Ionization	B401 / B401B / B406B	A	120
System Sensor 1451DH	A	Ionization	DH-400	A	120
System Sensor 1800*	A	Ionization	N/A	N/A	100
System Sensor 1851B*	A	Ionization	B101B	A	120
System Sensor 1851B*	A	Ionization	B107B	A	120
System Sensor 1851DH*	A	Ionization	DH1851DC	A	120
System Sensor 2100/D/S*	A	Photoelectric	N/A	N/A	120
System Sensor 2100T/D/S*	A	Photoelectric	N/A	N/A	120
System Sensor 2151	A	Photoelectric	B401 / B110LP / B116LP	A	85
System Sensor 2151T	A	Photoelectric with Thermal	B401 / B110LP / B116LP	A	85
System Sensor 2400*	A	Photoelectric	N/A	N/A	120
System Sensor 2400AIT*	A	Photo / Isolated Thermal / Horn	N/A	N/A	120

**Table 12: UL Listed, Compatible Two-Wire Smoke Detectors' Specifications (2 of 2)**

Model	Detector ID	Detector Type	Base Model	Base ID	Standby Current (µA)
System Sensor 2400AT*	A	Photo / Thermal / Horn	N/A	N/A	120
System Sensor 2400TH*	A	Photo / Thermal	N/A	N/A	120
System Sensor 2451*	A	Photoelectric	B401 / B401B / B406B	A	120
System Sensor 2451*	A	Photoelectric	DH-400	A	120
System Sensor 2451TH*	A	Photo / Thermal	B401 / B401B / B406B	A	120
System Sensor 2800*	A	Photoelectric	N/A	N/A	120
System Sensor 2800TH*	A	Photo / Thermal	N/A	N/A	120
System Sensor 2851B	A	Photoelectric	B101B	A	120
System Sensor 2851B	A	Photoelectric	B107B	A	120
System Sensor 2851BTH	A	Photoelectric	B101B	A	120
System Sensor 2851BTH	A	Photoelectric	B107B	A	120
System Sensor 2851DH	A	Photoelectric	DH2851DC	A	120

\* Discontinued Product

**Table 13a: Maximum Number of Detectors per Zone**

Detector Model	Base Model	RP-1001 RP-1002 SFP-400	SFP-400B	PAR-3	S500 S5000 IZM-8RK	XPM-8
<b>Notes:</b>						
1. System Sensor & Fenwal detectors can be mixed or matched in any zone, provided maximum detector standby current per loop is not exceeded.						
2. When using two-wire smoke detectors containing supplementary relays or indicators, the operation of more than one detector per zone cannot be ensured.						
3. A suffix "A" must be placed at the end of System Sensor part numbers when purchasing detectors for Canadian Applications.						
Edwards 6250B	6251B-00	N/A	N/A	30 / 1	30 / N/A	30
Edwards 6270B	6251B-00	N/A	N/A	30 / 1	30 / N/A	30
Edwards 6264B	N/A	N/A	N/A	30 / 1	1 / N/A	1
Fenwal CPD-7021	70-211002-000	1	1	1	1	1
Fenwal CPD-7021	70-201000-001 70-201000-002 70-201000-003 70-201000-005	30	30	30	41	60
Fenwal PSD-7125	70-201000-001 70-201000-002 70-201000-003 70-201000-005	20	20	20	25	51
Fenwal PSD-7126	70-201000-001 70-201000-002 70-201000-003 70-201000-005	20	20	20	25	51
Fenwal PSD-7129	70-211002-000	1	1	1	1	N/A
Hochiki SIH-24F	HS-22D HS-2-RB YBA-M22 HSB-220 HSB-224	30 *	30	30	35	60 <sup>†</sup>
Hochiki SLK-24F/ FH	HS-22D HS-2-RB YBA-M22 HSB-220 HSB-224	30 *	30 *	30 *	35	60

**Table 13a: Maximum Number of Detectors per Zone**

Detector Model	Base Model	RP-1001 RP-1002 SFP-400	SFP-400B	PAR-3	S500 S5000 IZM-8RK	XPM-8
<b>Notes:</b>						
1. System Sensor & Fenwal detectors can be mixed or matched in any zone, provided maximum detector standby current per loop is not exceeded.						
2. When using two-wire smoke detectors containing supplementary relays or indicators, the operation of more than one detector per zone cannot be ensured.						
3. A suffix "A" must be placed at the end of System Sensor part numbers when purchasing detectors for Canadian Applications.						
Notifier CP-651	B401 / B610LP / B616LP	15 / 15 / 1		N/A	20 / 20 / 1	30 / 30 / 1
Notifier SD-651	B401 / B610LP / B616LP	15 / 15 / 1		N/A	20 / 20 / 1	30 / 30 / 1
Simplex 2098-9201	2098-9211	N/A		N/A	35	60 †
Simplex 2098-9202	2098-9211	N/A		N/A	35	60 †
Simplex 2098-9576	2098-9211	N/A		N/A	35	60
System Sensor 2W-B	N/A	20	20	20	25	36
System Sensor 2WT-B	N/A	20	20	20	25	36
System Sensor DH100P	N/A	20	15	20	16	30
System Sensor DH100LP	N/A	20	15	20	16	16
System Sensor 1100/D	N/A	20	20	20	N/A	36
System Sensor 1400	N/A	20	20	20	25	36
System Sensor 1451	B401 / B401B / B406B	15 / 15 / 1	15 / 15 / 1	15 / 15 / 1	20 / 20 / 1	30 / 30 / 1
System Sensor 1451DH	DH-400	15	15	15	20	30
System Sensor 1851DH	DH1851DC	15	15	15	20	30
System Sensor 2100/D/S	N/A	20	20	20	25	30
System Sensor 2100T/D/S	N/A	20	20	20	25	30
System Sensor 2151/T	B401 / B110LP / B116LP	15 / 15 / 1		N/A	20 / 20 / 1	30 / 30 / 1
System Sensor 2400	N/A	15	15	15	20	30
System Sensor 2400AIT	N/A	1	1	1	1	1
System Sensor 2400AT	N/A	1	1	1	1	1
System Sensor 2400TH	N/A	15	15	15	20	30
System Sensor 2451	DH-400	15	15	15	20	30
System Sensor 2451	B401 / B401B / B406B	15 / 15 / 1	15 / 15 / 1	15 / 15 / 1	20 / 20 / 1	30 / 30 / 1
System Sensor 2451TH	B401 / B401B / B406B	15 / 15 / 1	15 / 15 / 1	15 / 15 / 1	20 / 20 / 1	30 / 30 / 1
System Sensor 2851DH	DH2851DC	15	15	15	20	30

\* 20 SLK plus 10 SIH max

† 30 SLK plus 30 SIH max

‡ 30 2098-9200 Series plus 30 2098-9576

**Table 13b: Maximum Number of Detectors Per Zone**

Detector Model	Base Model	SGL-2000	SGL-404	MMX-2 FZM-1 NZM-100	SFP-1024	SFP-2402 SFP-2404 SFP-5UD(E) SFP-10UD(E) RP-2001(E) RP-2002(E)	XP6-MA * NZM-100-6 *
<b>Notes:</b>							
1. System Sensor & Fenwal detectors can be mixed or matched in any zone, provided maximum detector standby current per loop is not exceeded.							
2. When using two-wire smoke detectors containing supplementary relays or indicators, the operation of more than one detector per zone cannot be ensured.							
3. A suffix "A" must be placed at the end of System Sensor part numbers when purchasing detectors for Canadian Applications.							
System Sensor 2W-B	N/A	20	20	20	16	16	20
System Sensor 2WT-B	N/A	20	20	20	16	16	20
System Sensor DH100P	N/A	16	16	20	20	16	N/A
System Sensor DH100LP	N/A	16	16	20	20	16	20
System Sensor 1100/D	N/A	20 / N/A	20 / N/A	20	20	20	20 / N/A
System Sensor 1400	N/A	16	16	20	20	20	20
System Sensor 1451	B401 / B401B / B406B	16 / 16 / 1	16 / 16 / 1	20 / 20 / 1	16 / 16 / 1	N/A / 16 / 1	20 / 20 / 1
System Sensor 1451DH	DH-400	16	16	20	16	16	20
System Sensor 1800	N/A	N/A		24	N/A	N/A	N/A
System Sensor 1851B	B101B			20		N/A	
System Sensor 1851B	B107B			1		N/A	
System Sensor 1851DH	DH1851DC	16	16	20	16	16	N/A
System Sensor 2100/D/S	N/A	20	N/A	24	N/A / N/A / 16	16	N/A / 20 / 20
System Sensor 2100T/D/S	N/A	20	N/A	24	N/A / N/A / 16	16	N/A / 20 / 20
System Sensor 2151	B401 / B110LP / B116LP	16 / 16 / 1	16 / 16 / 1	20 / 20 / 1	13 / 13 / 1	16 / 16 / 1	20 / 20 / 1
System Sensor 2400	N/A	16	16	20	16	16	20
System Sensor 2400AIT	N/A	N/A	1	1	1	1	N/A
System Sensor 2400AT	N/A	N/A	1	1	1	1	N/A
System Sensor 2400TH	N/A	16	16	20	16	16	20
System Sensor 2451	B401 / B401B / B406B	16 / 16 / 1	16 / 16 / 1	20 / 20 / 1	16 / 16 / 1	N/A / 16 / 1	20 / 20 / 1
System Sensor 2451TH	B401 / B401B / B406B	16 / 16 / 1	16 / 16 / 1	20 / 20 / 1	16 / 16 / 1	N/A / 16 / 1	20 / 20 / 1
System Sensor 2451	DH-400	16	16	20	16	16	20
System Sensor 2851DH	DH2851DC	16	16	20	20	16	20
System Sensor 2800	N/A	N/A		20	N/A		20
System Sensor 2800TH	N/A			20			20
System Sensor 2851B	B101B			20			20
System Sensor 2851B	B107B			1			1
System Sensor 2851BTH	B101B			20			20
System Sensor 2851BTH	B107B			1			1

\* Per one Input circuit

**Table 13c: Maximum Number of Detectors Per Zone**

Detector Model	Base Model	SGL-2000	SGL-404	MMX-2 FZM-1 NZM-100	SFP-1024	SFP-2402 SFP-2404 SFP-5UD(E) SFP-10UD(E) RP-2001(E) RP-2002(E)
<b>Notes</b>						
1. System Sensor & Fenwal detectors can be mixed or matched in any zone, provided maximum detector standby current per loop is not exceeded.						
2. When using two-wire smoke detectors containing supplementary relays or indicators, the operation of more than one detector per zone cannot be ensured.						
Edwards 6250B	6251B-00	N/A	N/A	20	25	N/A
Edwards 6264B	N/A	N/A	N/A	1	1	N/A
Edwards 6270B	6251B-00	N/A	N/A	20	25	N/A
Fenwal CPD-7021	70-211002-000	1	1	1	N/A	N/A
Fenwal CPD-7021	70-201000-001 70-201000-002 70-201000-003 70-201000-005	33	33	40		
Fenwal PSD-7125	70-201000-001 70-201000-002 70-201000-003 70-201000-005	20	20	24		
Fenwal PSD-7126	70-201000-001 70-201000-002 70-201000-003 70-201000-005	20	20	24		
Fenwal PSD-7129	70-211002-000	1	1	1		
Hochiki SIH-24F	HS-22D HS-2-RB YBA-M22 HSB-220 HSB-224	30	30 N/A 30 30 30	25 1 25 25 N/A		
Hochiki SLK-24F/ FH	HS-22D HS-2-RB YBA-M22 HSB-220 HSB-224	30 *	30 * N/A 30 * 30 * 30 *	25 1 25 25 N/A		
Notifier CP-651	B401 / B610LP / B616LP	16 / 16 / 1	16 / 16 / 1	20 / 20 / 1	16 / 16 / 1	16 / 16 / 1
Notifier SD-651	B401 / B610LP / B616LP	16 / 16 / 1	16 / 16 / 1	20 / 20 / 1	16 / 16 / 1	16 / 16 / 1
Simplex 2098-9201	2098-9211	N/A	N/A	20	10	N/A
Simplex 2098-9202	2098-9211			20	10	N/A
Simplex 2098-9576	2098-9211			20	10	N/A

\* 20 SLK plus 10 SIH max