

Notification Appliances

SEH – High-Fidelity Speakers and Speaker Strobes

Application: Indoor



SEH-HMC-W
Speaker Strobe



SECH-R
Speaker



SEH-HMC-CW
Speaker Strobe



SEH-R
Speaker

Product Overview

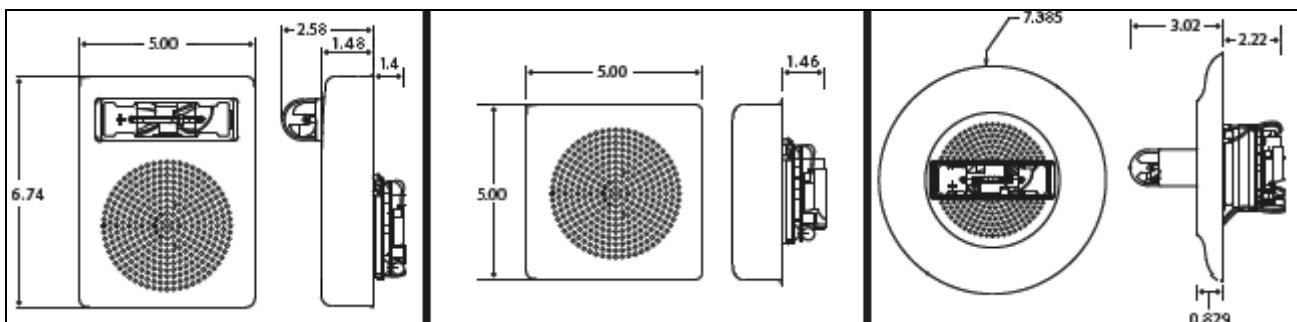
- Siemens Series 'SEH' of High-Fidelity (HiFi) speakers / speaker-strobes are comprised of high-efficient design for maximum output (at minimum wattage) across a sizeable frequency range, 300 to 8000 Hz
- Current Siemens Series 'SE' of speakers / speaker-strobes can easily be upgraded into the Siemens Series 'SEH'
- Siemens Series 'SEH' appliances have a plastic finish in which each model has a built-in level-adjustment feature
 - Snap-on grille cover with non-visible mounting screws for a level finish
- Series 'SEH' appliances mounts to a 4-inch [10.2 cm.] square by 2-1/8"-deep [5.4 cm.] back box:
 - Compatible with the SPECT extension ring, which prevents wire damage
 - Model SPECT is an optional extender used for mounting to 4" [10.2 cm.] back boxes without an extension ring
- The strobes portion of the Series 'SEH' appliances can be synchronized when used with any of the following:
 - 252 / 504-point addressable fire-safety systems
 - Siemens Modular systems and FireFinder® XLS control panels
 - Siemens Dual-Sync Control Modules → Model DSC-series with built-in sync protocol
 - Siemens PAD-series of NAC Extenders
- Faceplates for Siemens Series 'SEH' speaker-strobe appliances contain "FIRE" and "ALERT" text
 - "ALERT" strobes orderable in either Clear or in **Amber**
- Siemens Series 'SEH' meets the requirement for low-frequency signal tone [as described in the section for **Determination of Low Frequency Signal Format in the Standard for Audible Signal Appliances**, per UL464] when used with:
 - One (1) Amplifier Card {Model VCI2001-U1} with Siemens 252-point / 504-point addressable FACPs
 - One (1) Booster Amplifier {Model EBA200x Series} with Siemens 252-point / 504-point addressable FACPs
 - One (1) 40W Zone Amplifier Card {Model ZAC-40} with Siemens Modular systems and FireFinder XLSV
- Fast installation with In / Out screw terminals using #12 to #18 AWG wires
- Field-selectable taps for 25 or 70 VRMS operation from 1/8 Watt up to 2 Watts
- HiFi speaker-strobes produce one (1) flash per second
- Ceiling-mount HiFi signaling devices are available with six (6) field-selectable settings:
 - 15/30/75/95cd for single-Candela strobes
 - 15/30/75/95cd or 115/177cd multi-Candela strobes
- Wall-mount HiFi signaling devices are available with six (6) field-selectable settings:
 - 15/30/75/110cd or 135/185cd for multi-Candela strobes
- Wall-mount, standalone speaker available
 - **Red** and white
- UL 1480 and 1971 Listed, UL-C-S526, -S541 Listed; CSFM (#7320-0067:0275) Approved
- ADA, NFPA and ANSI Compliant; Complies with OSHA 29 Part 1910.165

'SEH' Series Notification Appliances 2589

Specifications

- High-fidelity speaker appliances are Siemens Series 'SEH' HiFi Speakers, and the speaker-strobe appliances are Siemens Series 'SEH' HiFi Speaker Strobes or approved equals
- HiFi speakers are ®UL Listed under Standard 1480 for Fire Protective Service, and speakers equipped with strobes are listed under ®UL Standard 1971 for Emergency Devices for the Hearing-Impaired
- HiFi speakers are designed for a field-selectable input of either 25 or 70 VRMS, and with selectable power taps from 1/8 Watt to 2 Watts
- Both HiFi ceiling and wall-mount models have listed sound outputs of up to 87 dBA at 10 feet, and a listed frequency response of 300 to 8000 Hz
- Speaker appliances feature sealed-back construction for optimum audibility
- All inputs employ terminals that accept #12 to #18 AWG wire sizes
- Strobe intensity, where multi-Candela appliances are specified, have six (6) field-selectable settings, and are rated per ®UL Standard 1971 for:
 - 15/30/75/110cd (wall mount)
 - 135/185cd (wall mount, high Candela)
 - 15/30/75/95cd (ceiling mount)
 - 115/177cd (ceiling mount, high Candela)
- Selector switch, which is used for manually selecting the candela setting, is tamper-resistant by design
- The strobe portion, when synchronization is required, is compatible when used with any of the following:
 - 252 / 504-point addressable fire-safety systems
 - Siemens Modular and FireFinder® XLS/V control panels
 - Siemens Dual-Sync Control Modules -> Model DSC-series with built-in sync protocol
 - Siemens PAD-series of NAC Extenders
- Siemens Series 'SEH' meets the requirement for low-frequency signal tone, per ®UL464, when used with:
 - One (1) Amplifier Card {Model VCI2001-U1} with Siemens 252-point / 504-point addressable FACPs
 - One (1) Booster Amplifier {Model EBA200 Series} with Siemens 252-point / 504-point addressable FACPs
 - One (1) 40W Zone Amplifier Card {Model ZAC-40} with Siemens Modular systems and FireFinder XLSV
- The strobes do not drift out of synchronization at any time during operation
- 'SEH'-series strobes revert to a non-synchronized flash-rate, if the dual-sync module or the Siemens PAD-series NAC Extenders should fail to operate (i.e. – contacts remain closed)
- HiFi ceiling speaker and speaker-strobe appliances are designed for indoor, flush mounting
- Wall-mount speaker and speaker-strobe appliances are designed for indoor flush mounting to 4" –x– 2-1/8" electrical boxes without the need for an extension ring or surface mounting
 - Model SPECT is an optional extender used for mounting to 4" [10.2 cm.] back boxes without a ring
- HiFi speakers and speaker-strobe incorporate a speaker-mounting plate with a snap-on grille cover:
 - Low-profile design allows for faster and easier installation of the speaker mounting plate
- Series 'SEH' HiFi speakers and speakers strobes is available for ordering in either white or red
- All speakers and speaker-strobe appliances are listed for Special Applications:
 - 24 VDC with wide, ®UL "Regulated Voltage" using filtered DC or unfiltered VRMS input voltage
 - Strobes are designed to flash at 1-flash-per-second minimum over their "Regulated Input Voltage Range"
 - **Note:** NFPA-72 specifies a flash rate of 1-to-2 flashes per second, and ADA Guidelines specify a flash rate of 1-to-3 flashes per second
 - All candela ratings represent minimum-effective Strobe intensity, based on ®UL Standard 1971

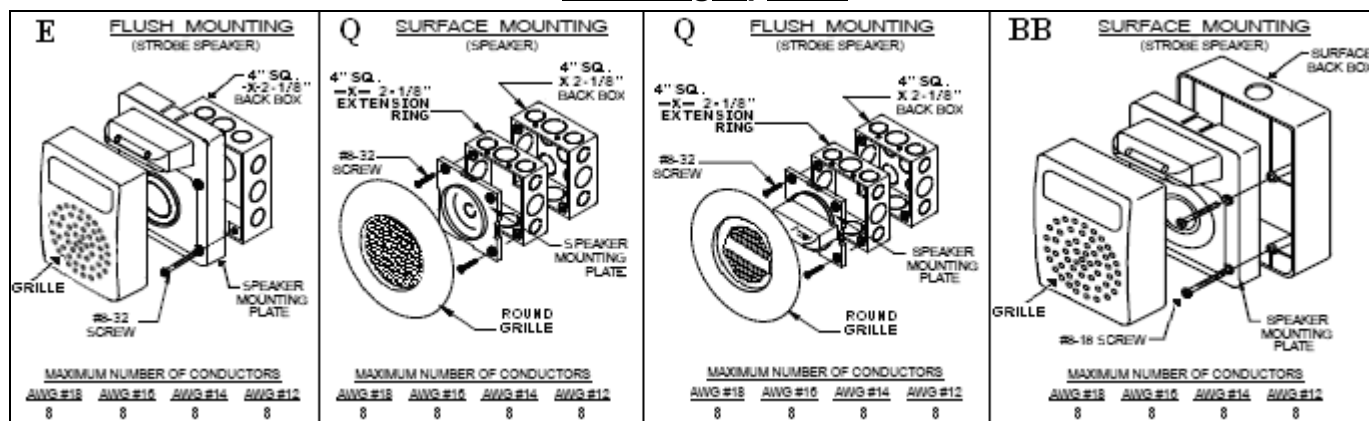
Wiring Diagram



(Shown In Inches)

Wiring Diagram – (continued)

Mounting Options



Technical Data

SEH-MC Series: Wall-Mount Strobe Only

Current Ratings (AMPs)						
MAXIMUM RMS Current – Per $\odot$ UL and $\odot$ ULC						
Input Voltage Range		Operating Voltage (Special Application)	15cd	30cd	75cd	110cd
DC	16.0 – 33.0VRMS	@ 24 VDC	0.064	0.098	0.175	0.233
FWR	16.0 – 33.0VRMS	@ 24 VDC	0.108	0.164	0.268	0.368

SE HiFi Series: Ceiling-Mount Strobe Only

Current Ratings (AMPs)						
MAXIMUM RMS Current – Per $\odot$ UL and $\odot$ ULC						
Input Voltage Range		Operating Voltage (Special Application)	15cd	30cd	75cd	95cd
DC	16.0 – 33.0VRMS	@ 24 VDC	0.069	0.111	0.200	0.264
FWR	16.0 – 33.0VRMS	@ 24 VDC	0.117	0.180	0.297	0.398

SEH-HMC Series: Wall-Mount Strobe Only

Current Ratings (AMPs)				
MAXIMUM RMS Current – Per $\odot$ UL and $\odot$ ULC				
Input Voltage Range		Operating Voltage (Special Application)	135cd	185cd
DC	16.0 – 33.0VRMS	@ 24 VDC	0.318	0.445
FWR	16.0 – 33.0VRMS	@ 24 VDC	0.482	0.684

SE HiFi Series: Ceiling-Mount Strobe Only

Current Ratings (AMPs)				
MAXIMUM RMS Current – Per $\odot$ UL and $\odot$ ULC				
Input Voltage Range		Operating Voltage (Special Application)	115cd	177cd
DC	16.0 – 33.0VRMS	@ 24 VDC	0.318	0.445
FWR	16.0 – 33.0VRMS	@ 24 VDC	0.482	0.684

SEH Series: Wall-Mount Speakers Only

$\odot$ UL and $\odot$ ULC Listed Models and Ratings											
Model*	Operating Voltage (VRMS)	dBA at 10 Feet (Rated Watts)					Anechoic dBA (Per CAN / $\odot$ ULC-S541-07)				
		1/8	1/4	1/2	1	2	1/8	1/4	1/2	1	2
SEH	25/70	73	76	79	82	84	74	76	80	83	86
SEH-MC	25/70	73	76	79	82	84	74	76	80	83	86
SEH-HMC	25/70	73	76	79	82	84	74	76	80	83	86

* All models available in red or white.

SE HiFi Series: Ceiling-Mount Speakers Only

$\odot$ UL and $\odot$ ULC Listed Models and Ratings											
Model*	Operating Voltage (VRMS)	dBA at 10 Feet (Rated Watts)					Anechoic dBA (Per CAN / $\odot$ ULC-S541-07)				
		1/8	1/4	1/2	1	2	1/8	1/4	1/2	1	2
SECH	25/70	74	77	80	83	85	74	78	80	83	86
SEH-MC-C	25/70	74	77	80	82	85	73	76	79	82	85
SEH-HMC-C	25/70	74	77	80	82	85	73	76	79	82	85

* All models available in red or white.

$\odot$ ULC Directional Characteristics		
25V / 70V	-3dBA	+/- 19 degrees horizontal; +/- 18 degrees vertical
	-6dBA	+/- 37 degrees horizontal; +/- 39 degrees vertical

$\odot$ ULC Directional Characteristics		
25V / 70V	-3dBA	+/- 34 degrees horizontal; +/- 17 degrees vertical
	-6dBA	+/- 40 degrees horizontal; +/- 32 degrees vertical

Notes: 1. Speaker and Strobe models are $\odot$ UL Listed for indoor use with a temperature range of +32°F to +120°F (0°C to +49°C) and maximum humidity of 95% RH.

2. For Speaker Appliances, dBA is rated per $\odot$ UL Standard 1480. Frequency range of speakers is 300 – 8000Hz.

3. Strobes produce 1 flash-per-second over the input voltage range.

Speaker Voltage & Wattage Connection Chart

Position	25V	70V
A	2	---
B	1	---
C	1/2	---
D	1/4	2
E	1/8	1
F	----	1/2
G	----	1/4
H	----	1/8

Details for Ordering — (Including Mounting Options & Agency Approvals)

								Agency Approvals	
Model	Part Number	Description	Wall Mount	Ceiling Mount	Text	Mounting Options*	UL	ULC	CSFM
SECH-R	S54360-F1-A1	SEH HiFi Speaker : Round, Red	—	YES	N/A	Q,U	✓	✓	✓
SECH-W	S54360-F1-A2	SEH HiFi Speaker : Round, White	—	YES	N/A	Q,U	✓	✓	✓
SEH-CW-ALERT	S54329-A21-A1	SEH HiFi Speaker : Round, White	—	YES	ALERT	Q,U	✓	✓	✓
SEH-MC-CW-ALERT	S54329-A24-A1	SEH HiFi Speaker : Multi-Candela Round, White	—	YES	ALERT	Q,U,V	✓	✓	✓
SEH-MC-CW-BLANK	S54329-A25-A1	SEH HiFi Speaker : Multi-Candela Round, White	—	YES	N/A	Q,U,V	✓	✓	✓
SEH-HMC-CR	S54360-F7-A1	SEH HiFi Speaker : Hi Multi-Candela Round, Red	—	YES	FIRE	Q,U,V	✓	✓	✓
SEH-HMC-CW	S54360-F7-A2	SEH HiFi Speaker : Hi Multi-Candela Round, White	—	YES	FIRE	Q,U,V	✓	✓	✓
SEH-AMC-CW-ALERT	S54329-A11-A1	SEH HiFi Speaker : Amber Multi-Candela Round, White	—	YES	ALERT	Q,U,V	✓	✓	✓
SEH-HMC-R	S54360-F8-A1	SEH HiFi Speaker -Strobe: Hi Multi-Candela, Red	YES	—	FIRE	E,Q,U,BB	✓	✓	✓
SEH-HMC-W	S54360-F8-A2	SEH HiFi Speaker -Strobe: Hi Multi-Candela, White	YES	—	FIRE	E,Q,U,BB	✓	✓	✓
SEH-HMC-W-ALERT	S54329-A19-A1	SEH HiFi Speaker : Multi-Candela, White	YES	—	ALERT	E,Q,U,BB	✓	✓	✓
SEH-AMC-W-ALERT	S54329-A12-A1	SEH HiFi Speaker : Amber Multi-Candela, White	YES	—	ALERT	E,Q,U,BB	✓	✓	✓
SEH-MC-CR	S54360-F9-A1	SEH HiFi Speaker : Multi-Candela Round, Red	—	YES	FIRE	Q,U,V	✓	✓	✓
SEH-MC-CW	S54360-F9-A2	SEH HiFi Speaker : Multi-Candela Round, White	—	YES	FIRE	Q,U,V	✓	✓	✓
SEH-MC-R	S54360-F10-A1	SEH HiFi Speaker -Strobe: Multi-Candela, Red	YES	—	FIRE	E,Q,U,BB	✓	✓	✓
SEH-MC-R-ALERT	S54329-A17-A1	SEH HiFi Speaker -Strobe: Multi-Candela, Red	YES	—	ALERT	E,Q,U,BB	✓	✓	✓
SEH-MC-W	S54360-F10-A2	SEH HiFi Speaker -Strobe: Multi-Candela, White	YES	—	FIRE	E,Q,U,BB	✓	✓	✓
SEH-MC-W-ALERT	S54329-A18-A1	SEH HiFi Speaker : Multi-Candela Round, White	YES	—	ALERT	E,Q,U,BB	✓	✓	✓
SEH-MC-W-BLANK	S54329-A20-A1	SEH HiFi Speaker : Multi-Candela Round, White	YES	—	N/A	E,Q,U,BB	✓	✓	✓
SEH-R	S54360-F11-A1	SEH HiFi Speaker : Square, Red	YES	—	N/A	E,O,P,Q,R,U,Y,AA	✓	✓	✓
SEH-W	S54360-F11-A2	SEH HiFi Speaker : Square, White	YES	—	N/A	E,O,P,Q,R,U,Y,AA	✓	✓	✓
SEH-W-ALERT	S54329-A16-A1	SEH HiFi Speaker : Square, White	YES	—	ALERT	E,O,P,Q,R,U,Y,AA	✓	✓	✓
SPEXT-R**	500-636116	** SPEXT is an extender ring that mounts behind the speaker to permit mounting to a 4" square –x– 2-1/8" deep electrical box – without the need for an extension ring on the box.					✓	✓	✓
SPEXT-W**	500-636117						✓	✓	✓

NOTE: There are no regulatory restrictions in mounting Siemens Series '**SEH**' **Speaker-only** appliances to either wall or ceiling applications.

✓ = listed / approved

* = Refer to data sheet # 2585 for detailed mounting options

Notice: This marketing data sheet is not intended to be used for system design or installation purposes. For the most up-to-date information, refer to each product's installation instructions.