

Notification Appliances

SEFH – High-Fidelity Speakers and Speaker Strobes**Application: Indoor**

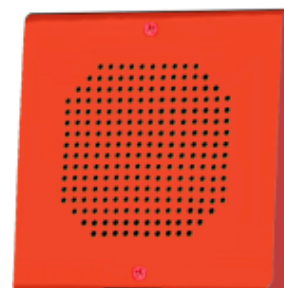
SEFH-HMC-CW
Speaker Strobe



SEFH-CW
Speaker



SEFH-HMC-W
Speaker Strobe



SEFH-R
Speaker

Product Overview

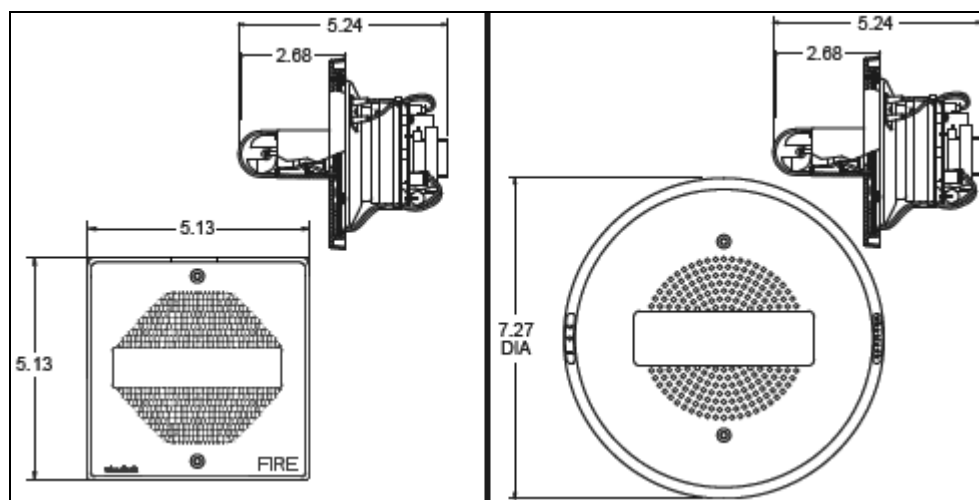
- Siemens Series 'SEFH' of High-Fidelity (HiFi) speakers / speaker-strobes are comprised of high-efficient design for maximum output (at minimum wattage) across a extensive frequency range, 300 to 8000 Hz
- Current Siemens Series 'SEF' of speakers / speaker-strobes can easily be upgraded into the 'SEFH' HiFi series appliance of the existing back box in which it resides
- Siemens Series 'SEFH' of High-Fidelity (HiFi) speakers / speaker-strobes provides a polished look with a regular flush-mount appearance using a durable metal cover
- The strobes portion of Siemens Series 'SEFH' appliances can be synchronized using the following:
 - Siemens Dual-Sync Control Modules (Model DSC-series with built-in sync protocol)
 - Siemens 252 / 504-point addressable fire-safety systems
 - FireFinder® XLS control panels
 - The Siemens PAD-series of NAC Extenders
- Siemens Series 'SEFH' meets the requirement for low-frequency signal tone 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 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 to 2 Watts
- Siemens Series 'SEFH' HiFi speaker-strobes produce one (1) flash per second
- HiFi ceiling-mount models are available with six (6) field-selectable Candela settings of:
 - 15/30/75/95cd for single-Candela strobes
 - 15/30/75/95cd or 115/177cd multi-Candela strobes
- HiFi wall-mount models are available with six (6) field-selectable Candela Settings of:
 - 15/30/75/110cd or 135/185cd for multi-Candela strobes
- @ULC-S526, -S541 Listed;
CSFM (#7125-0067:0272 for Strobes; #7125-0067:0273 for Speakers) Approved
- ADA, NFPA and ANSI Compliant
Complies with OSHA 29 Part 1910.165

'SEFH' Series Notification Appliances 2590C

Specifications

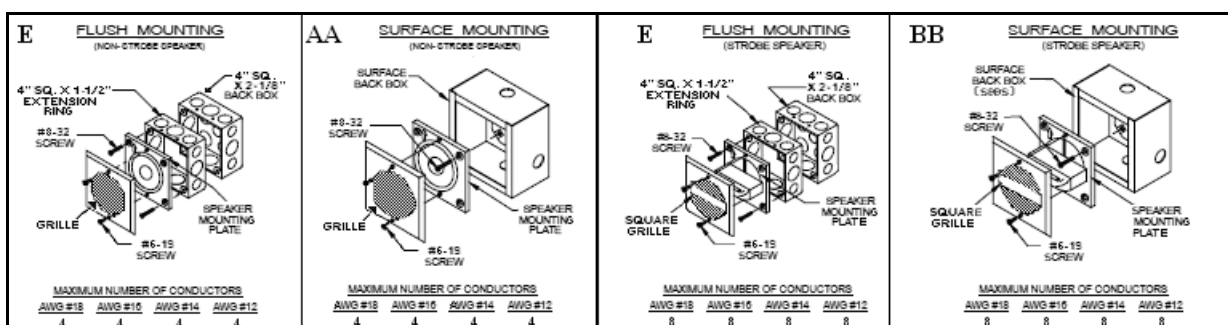
- Siemens Series 'SEFH' High-Fidelity speaker appliances are Siemens Series 'SEFH' HiFi Speakers, and the HiFi speaker-strobe appliances are Siemens Series 'SEFH' HiFi Speaker Strobes or approved equals
- Siemens Series 'SEFH' HiFi speakers are designed for a field-selectable input of either 25 or 70 VRMS, and with field-selectable power taps from 1/8 Watt to 2 Watts
- Selector switch, which is used for manually selecting the candela setting, is tamper-resistant by design
- Siemens Series 'SEFH' HiFi models have listed sound outputs of up to 87dBA 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 HiFi Candela appliances are specified, has field-selectable settings, and is rated for Emergency Devices and for the Hearing-Impaired based upon the following:
 - 15/30/75/110cd (wall mount, single-Candela strobes) -or-
 - 135/185cd (wall mount, multi-Candela strobes)
 - 15/30/75/95cd (ceiling mount, single-Candela strobes) -or-
 - 115/177cd (ceiling mount, multi-Candela strobes)
- Strobe portion of each HiFi appliance produces a flash rate of one (1) flash per second, and incorporates a Xenon flashtube enclosed in a rugged Lexan® lens
- Strobes are of low-current design
- When synchronization is required, the strobes portion of Siemens Series 'SEFH' appliances is synchronized using the following:
 - Siemens Dual-Sync Control Modules -> Model DSC-series with built-in sync protocol
 - Siemens 252 / 504-point addressable fire-safety systems
 - FireFinder® XLS and control panels
 - The Siemens PAD-series of NAC Extenders
- Siemens Series 'SEFH' meets the requirement for low-frequency signal tone 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 and FireFinder XLSV
- The strobes will not drift out of synchronization at any time during operation
 - **Note:** ADA Guidelines specify a flash rate of 1-to-3 flashes per second
- Siemens 'SEFH' 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 speakers and speaker-strobe appliances are designed for indoor-surface or flush mounting
- HiFi speakers and speaker-strobes incorporate a speaker-mounting plate with a grille cover, which is secured with two (2) screws for a level finish
 - Grille cover mounts to standard electrical hardware, requiring no additional trim plate or adapter
- Series 'SEFH' HiFi speakers and speakers strobes are available for ordering in either white or red
- All speaker and speaker-strobe appliances are listed for Special Applications:
 - Strobes are designed to flash at 1-flash-per-second minimum over their "Regulated Input Voltage Range"

Mounting Diagram



(Shown In Inches)

Mounting Options



Note: Backbox is compatible with wire mold and conduit mountings.

Holes are for single-gang, double-gang, 10.2 cm. (4"), 8.9 cm. (3-1/2") and 10.2 cm. (4") octagon or round backboxes.

Technical Data

SEFH Series: Speakers Only

UL and ULC Listed Models and Ratings											
Model*	Operating Voltage (VRMS)	dBA at 10 Feet (Rated Watts)					Anechoic dBA (Per CAN / ULC-S541-07)				
		1/8	1/4	1/2	1	2	1/8	1/4	1/2	1	2
SEFH	25/70	72	75	78	81	83	74	77	80	83	85
SEFH-C	25/70	72	75	78	81	82	73	76	79	82	85

* All models available in red or white.

ULC Directional Characteristics			
25V / 70V	-3dBA	+/- 19 degrees horizontal; +/- 35 degrees vertical	
	-6dBA	+/- 40 degrees horizontal; +/- 45 degrees vertical	

SEFH-MC Series: Speaker-Strobes

UL and ULC Listed Models and Ratings											
Model*	Operating Voltage (VRMS)	dBA at 10 Feet (Rated Watts)					Anechoic dBA (Per CAN / ULC-S541-07)				
		1/8	1/4	1/2	1	2	1/8	1/4	1/2	1	2
SEFH-MC	25/70	71	75	78	81	83	73	76	79	82	85
SEFH-HMC	25/70	71	75	78	81	83	73	76	79	82	85
SEFH-MC-CW	25/70	74	77	80	82	85	74	77	80	82	85
SEH-HMC-CW	25/70	74	77	80	82	85	74	77	80	82	85

* All models available in red or white.

ULC Directional Characteristics			
25V / 70V	-3dBA	+/- 33 degrees horizontal; +/- 18 degrees vertical	
	-6dBA	+/- 41 degrees horizontal; +/- 31 degrees vertical	

SEFH-MC Series: Ceiling-Mount Strobes Only

Current Ratings (AMPS)						
MAXIMUM RMS Current - Per UL and 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

SEFH-HMC Series: Ceiling-Mount Strobes Only

Current Ratings (AMPS)				
MAXIMUM RMS Current - Per UL and 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	0.683

Technical Data — (continued)

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

Notes: 1. Strobe will produce 1 flash per second over the Input Voltage Range

2. Frequency range of speakers is 300 – 8000Hz

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

Model	Part Number	Description	Wall Mount	Ceiling Mount	Mounting Options*	Agency Approval
						ULC
SEFH-CR	S54360-F2-A1	SEFH HiFi Series: Speaker, Red	—	YES	Q,U	✓
SEFH-CW	S54360-F2-A2	SEFH HiFi Series: Speaker, White	—	YES	Q,U	✓
SEFH-HMC-CW-B	UDI:SEFH-HMC-CW-B	SEFH HiFi Series: Hi Multi-Candela, White	—	YES	Q,U	✓
SEFH-HMC-R-B	UDI:SEFH-HMC-R-B	SEFH HiFi Series: Hi Multi-Candela, Red	YES	—	P,Q,R,U,Y	✓
SEFH-HMC-W-B	UDI:SEFH-HMC-W-B	SEFH HiFi Series: Hi Multi-Candela, White	YES	—	P,Q,R,U,Y	✓
SEFH-MC-CW-B	UDI:SEFH-MC-CW-B	SEFH HiFi Series: Multi-Candela, White	—	YES	Q,U	✓
SEFH-MC-R-B	UDI:SEFH-MC-R-B	SEFH HiFi Series: Multi-Candela, Red	YES	—	P,Q,R,U,Y	✓
SEFH-MC-W-B	UDI:SEFH-MC-W-B	SEFH HiFi Series: Multi-Candela, White	YES	—	P,Q,R,U,Y	✓
SEFH-R	S54360-F6-A1	SEFH HiFi Series: Speaker, Red	YES	—	Q,U	✓
SEFH-W	S54360-F6-A2	SEFH HiFi Series: Speaker, White	YES	—	Q,U	✓

NOTE: There are no regulatory restrictions in mounting Siemens Series '**SEFH**' **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.