


Notification Appliances

'ACEND' Series – Low Frequency Sounder | Sounder- Strobes

Applications : Indoor, Ceiling-Only

Architect & Engineer Specifications

- ❑ Sophisticated series of notification appliances that meets fire-industry codes and regulations for commercial-building applications
- ❑ Compatible with the Siemens Cerberus PRO and Desigo Fire Alarm Control Panels (FACPs); Siemens PAD-Series Power Supplies
- ❑ Energy Efficient and Sustainable
- ❑ Siemens EcoTech Certification
- ❑ Four (4) temporal-pattern settings in each notification appliance:
 - Continuous
 - T3 (Temporal 3 for fire evacuation)
 - T4 (Temporal 4 for CO notification)
 - T4, Low Power (Temporal 4 for CO notification, low power mode)
- ❑ Six (6) field-selectable Candela settings: 15cd | 30cd | 75cd | 110cd | 135cd | 185cd
- ❑ Straightforward installation coupled with compact, modern design
 - No visible mounting screws
 - Slide-Selector for Candela Settings
- ❑ Faceplates ship in distinctive types:
 - 'FIRE' | 'ALERT' | 'AGENT' | 'EMERGENCY' | 'HOUSE ON FIRE' Icon 
- ❑ Low frequency sounder codes in each appliance
 - suitable for sleeping areas per NFPA 72
 - low frequency devices per UL464
 - Special Application 16 to 33VDC (UL / ULC listed)
- ❑ UL 1971 | UL 1638 | UL 464 Listed
- ❑ ULC 525 | ULC 526 Listed
- ❑ FCC Part 15 and ROHS Compliant

Product Overview

Siemens new offering to its notification-appliances portfolio are the 'ACEND'-series Low-Frequency Sounders and Sounder-Strobes.

They can be provided as either non-synchronized or synchronized strobe appliances. The 'ACEND'-series low frequency sounders and sounder-strobes are compatible with Siemens Cerberus PRO and Desigo fire alarm control panels and with Siemens PAD-Series power supplies. *(For more details, see compatibility table in these documents: 315-096363, A6V10333530, A6V10333532.)*

The 'ACEND' Series low-frequency sounder and sounder-strobes hold Siemens **EcoTech** Certification, an environmental self-declaration, based on sustainability evaluations.

These notification appliances use recycled materials and sustainable packaging, minimizing waste throughout their lifecycle and reducing environmental impact.

The 'SC-LFS-C'-series Sounders and the 'SC-LFSS-C'-series Sounder-Strobes have four (4) field selectable Alarm-Signaling Tone Patterns for the audible portion of the appliances:

- Continuous (UL: Fire listing)
- T3 (temporal 3 for fire evacuation) (UL: Fire listing)
- T4 [temporal 4 for carbon monoxide (CO) notification] (UL: CO listing)
- T4, Low Power (temporal 4 for CO notification, low power mode) (UL: CO listing)

The Lens-based sounder-strobe dual-type appliances have six (6) Candela Settings on a single appliance: 15cd | 30cd | 75cd | 110cd | 135cd | 185cd.

The strobe portion of these appliances meets the 20-millisecond light-pulse-duration requirements of NFPA-72. All appliances are rated as low-frequency devices per UL464, suitable for designated sleeping areas per NFPA 72. In addition, these notification appliances are UL/ULC listed as "Special Application 16 to 33VDC" and compliant with applicable clauses of FCC Part 15.

The 'SC-LFS-C'-series Sounders and the 'SC-LFSS-C'-series Sounder-Strobes are specific to indoor, ceiling-mount applications.



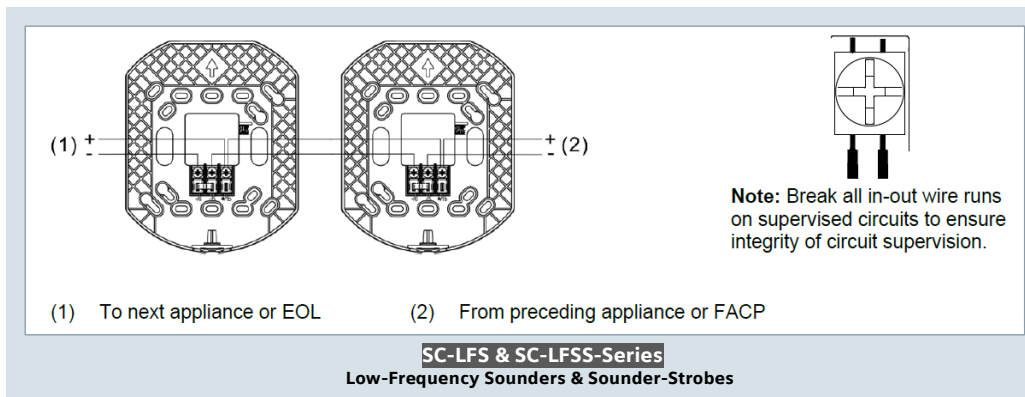
Model SC-LFS-CR-N
Low-Frequency
Sounder



Model SC-LFSS-CR-F
Low-Frequency
Sounder-Strobe



Wiring Diagrams



Specifications

In terms of composition and functionality, the 'ACEND' series Sounders and Sounder-Strobes provide added value to the installer for these types of applications for operation:

- Compact | sleek | low-profile design
- Sustainable and Energy efficient
- Comprehensive feature list
- Convenient mounting options
- Easy-to-adjust selection-slider switch for Candela settings
 - No tools required for setting changes
 - Multi-level settings: 15cd | 30cd | 75cd | 110cd | 135cd | 185cd
- Reduced current draw, via cutting-edge LED technology

The LED portions of the 'ACEND' series sounder-strobes meet the 20 millisecond light-pulse-duration requirements of the 2022 edition of NFPA 72. By meeting this latest requirement, existing Xenon as well as the new LED-technology devices can now be in the same field-of-view. These energy efficient notification appliances are designed for low current draw (16 – 33 VDC) with a Flash Rate 1 to 2Hz.

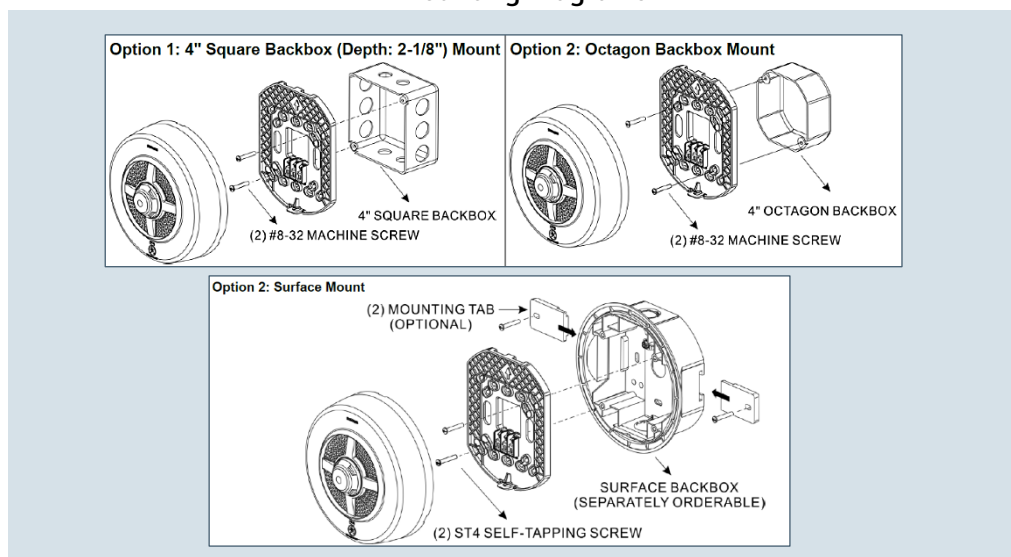
The low-profile design incorporates a pre-wired mounting plate for faster and easier installation. No tools are required for setting changes. Each model has a built-in level adjustment feature and a snap-on grille cover. All inputs employ IN / OUT wiring terminals for fast installation using #12 to #18 AWG wiring.

The 'ACEND' series Low-frequency Sounder and Sounder-Strobe appliances are UL/ULC listed for dry indoor operations only.

Standard listings for the 'SC-LFS-C' & 'SC-LFSS-C' -series notification appliances are as follows:

UL464, UL1638, UL1971 | ULC 525, ULC 526 | FCC Part 15 | ROHS

Mounting Diagrams



Electrical Ratings

Sound Output Ratings (Max.)

| Reverberant dBA Per UL 464 at Voltage Range 16 to 33V | | | | | |
|---|-----------------------|--------|----------|----------|----------|
| Models: SC-LFS-C-Series & SC-LFSS-C-Series | Tone Pattern | Volume | 16.0 VDC | 24.0 VDC | 33.0 VDC |
| | Continuous | High | 80 | 80 | 80 |
| | | Low | 77 | 77 | 77 |
| | Temporal 3 | High | 80 | 80 | 80 |
| | | Low | 77 | 77 | 77 |
| | Temporal 4 | High | 80 | 80 | 80 |
| | | Low | 77 | 77 | 77 |
| | Temporal 4, Low Power | High | 80 | 80 | 80 |
| | | Low | 77 | 77 | 77 |

Tone Output Ratings (UL) (Max.)

| Tone Current Draw (mA) at Voltage Range 16 to 33V | | | |
|---|---|--------|-------------------|
| Models: SC-LFS-C-Series & SC-LFSS-C-Series | Tone | Volume | Current Draw (mA) |
| | Continuous | High | 114 |
| | | Low | 47 |
| | T3 (Temporal 3 for fire evacuation) | High | 114 |
| | | Low | 47 |
| | T4 [Temporal 4 for carbon monoxide (CO) notification] | High | 114 |
| | | Low | 47 |
| | T4, Low Power (Temporal 4 for CO notification, low power mode) | High | 114 |
| | | Low | 47 |

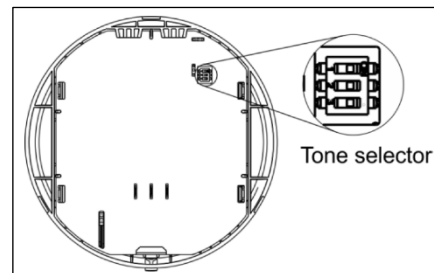
Sounder-Strobe I Output Current Draw (UL) (Max.)

| Current Draw (mA) @ Voltage Range 16.0 – 33.0 VDC | | | | | | | | |
|---|------------------|--------|------------------|------|------|-------|-------|-------|
| Models: SC-LFSS-C-Series | Tone | Volume | Candela Settings | | | | | |
| | | | 15cd | 30cd | 75cd | 110cd | 135cd | 185cd |
| | Continuous | High | 101 | 108 | 127 | 151 | 179 | 223 |
| | | Low | 46 | 54 | 72 | 95 | 126 | 172 |
| | T3 | High | 101 | 108 | 127 | 151 | 179 | 223 |
| | | Low | 46 | 54 | 72 | 95 | 126 | 172 |
| | T4 | High | 101 | 108 | 127 | 151 | 179 | 223 |
| | | Low | 46 | 54 | 72 | 95 | 126 | 172 |
| | T4, Low Power | High | 101 | 108 | 127 | 151 | 179 | 223 |
| | | Low | 46 | 54 | 72 | 95 | 126 | 172 |

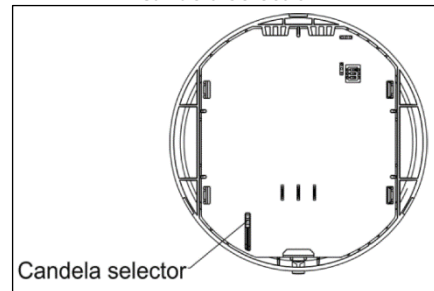
GENERAL NOTES:

1. Strobes are designed to flash at 1-flash-per-second minimum over their "Regulated Voltage Range."
2. NFPA-72 specifies a flash rate of 1-to-2 flashes-per-second.
3. All Candela ratings represent minimum effective Strobe intensity based on UL 1971.

Tone Pattern Selection



Candela Selection



Technical Data

General Properties

| 'ACEND' Series Sounders / Sounder-Strobes | |
|---|--|
| OPERATING TEMPERATURE: | - 32°F (0°C) to 122°F (50°C) - Dry indoor operations only |
| RELATIVE HUMIDITY: | 95% |
| STROBE OUTPUT RATING: | Field-selectable Candela outputs: 15cd 30cd 75cd 110cd 135cd 185cd |
| STROBE FLASH RATE: | 1-2 Hz |
| STROBE SYNCHRONIZATION: | See *Compatibility table on page 4. For more detailed information, refer to Document ID: 315-096363, A6V10333530, A6V10333532 |
| INPUT POWER: | 16 to 33VDC |
| STONE SOUND OUTPUT: | High I Low (Field Selectable) |
| TONE PATTERN: | 4 Field Selectable Patterns: - Continuous - T3 (temporal 3 for fire evacuation) - T4 (temporal 4 for carbon monoxide notification) - T4, low power (temporal 4 for carbon monoxide notification, switching to the low power mode after 4 minutes.) |

Physical Properties

| 'ACEND' Series Sounders / Sounder-Strobes | |
|---|---|
| MATERIAL: | All appliances are made from environmentally friendly recyclable plastics. |
| WEIGHT: | LF Sounders: 416 gm LF Sounder-Strobes: 450 gm |
| LENS TYPE: | LED strobe situated in a rugged Lexan lens |
| DIMENSIONS: | Low-Frequency Sounders: 6.62" (16.8 cm.) x 2.08" (5.28 cm.) Low-Frequency Sounder-Strobes: 6.62" (16.8 cm.) x 2.58" (6.55 cm.) |

Mounting and Wiring Properties

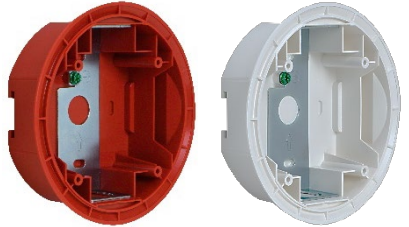



| 'ACEND' Series Sounders / Sounder-Strobes | |
|---|--|
| INDOOR MOUNTING: | <ul style="list-style-type: none"> - Ceiling-mount applications - 4" (10.2 cm.) Square Backbox Mount, Octagon Backbox Mount, Surface Backbox (Surface mount) |
| WIRING TYPE: | #12 – #18, American Wire Gauge (AWG) |

Note: Surface mount Backboxes are ordered separately.







| FACP / Power Supply | *Compatibility |
|--|---|
| Desigo / Cerberus PRO / FireFinder XLS | YES |
| PAD-3 PAD-4 PAD-5 | YES |
| Booster Amplifiers | YES (Speakers only) |
| FS250 MPC System 3 MXL TXR-320 | YES (Only on PADs not directly from panels) |

| Details for Ordering | | | | | | |
|----------------------|---------------|------------------------------|---------------|-------------|-----------------|---------------------|
| MODEL | PART NUMBER | APPLIANCE TYPE | MOUNTING TYPE | STROBE TYPE | FACEPLATE COLOR | FACEPLATE LETTERING |
| SC-LFS-CR-N | S54361-F17-A1 | Low Frequency Sounder | CEILING | - None - | RED | NO LETTERING |
| SC-LFS-CW-N | S54361-F17-A2 | | CEILING | - None - | WHITE | NO LETTERING |
| SC-LFSS-CR-F | S54361-F23-A1 | Low Frequency Sounder-Strobe | CEILING | Clear | RED | FIRE |
| SC-LFSS-CW-F | S54361-F23-A2 | | CEILING | Clear | WHITE | FIRE |

Related Hardware

| Model | Part Number | Description | Image |
|----------------|---------------|--|---|
| SMB-SS-CR | S54370-F60-A1 | Red surface mount backbox for ceiling mounted low frequency sounders and sounder/strobes |  |
| SMB-SS-CW | S54370-F61-A1 | White surface mount backbox for ceiling mounted low frequency sounders and sounder/strobes | |
| SCVR-SS-CR-EMG | S54370-F41-A1 | Red plastic cover for ceiling mounted low frequency sounders and sounder/strobes with "EMERGENCY" text |  |
| SCVR-SS-CW-EMG | S54370-F42-A1 | White plastic cover for ceiling mounted sounders and sounder/strobes with "EMERGENCY" text | |
| SCVR-SS-CR-ALR | S54370-F45-A1 | Red plastic cover for ceiling mounted low frequency sounders and sounder/strobes with "ALERT" text |  |
| SCVR-SS-CW-ALR | S54370-F46-A1 | White plastic cover for ceiling mounted low frequency sounders and sounder/strobes with "ALERT" text | |
| SCVR-SS-CR-AGT | S54370-F49-A1 | Red plastic cover for ceiling mounted low frequency sounders and sounder/strobes with "AGENT" text |  |
| SCVR-SS-CW-AGT | S54370-F50-A1 | White plastic cover for ceiling mounted low frequency sounders and sounder/strobes with "AGENT" text | |

Related Hardware (cont.)

| Model | Part Number | Description | Image |
|----------------|---------------|--|---|
| SCVR-SS-CR-HOF | S54370-F53-A1 | Red plastic cover for ceiling mounted low frequency sounders and sounder/strobes with "HOUSE ON FIRE" logo |  |
| SCVR-SS-CW-HOF | S54370-F62-A1 | White plastic cover for ceiling mounted low frequency sounders and sounder/strobes with "HOUSE ON FIRE" logo | |
| SCVR-SS-CR-BNK | S54370-F56-A1 | Red plastic cover for ceiling mounted low frequency sounders and sounder/strobes with no text |  |
| SCVR-SS-CW-BNK | S54370-F57-A1 | White plastic cover for ceiling mounted low frequency sounders and sounder/strobes with no text | |
| STLENS-R | S54370-F17-A1 | Red plastic translucent lens for fire alarm strobes |  |
| STLENS-A | S54370-F17-A2 | Amber plastic translucent lens for fire alarm strobes |  |
| STLENS-B | S54370-F18-A1 | Blue plastic translucent lens for fire alarm strobes |  |
| STLENS-G | S54370-F18-A2 | Green plastic translucent lens for fire alarm strobes |  |

NOTICE – The information contained in this data-sheet document is intended only as a summary and is subject to change without notice. The product(s) described here has/have a specific instruction sheet(s) that cover various technical, limitation and liability information.

Copies of install-type, instruction sheets – as well as the *General Product Warning and Limitations* document, which also contains important data, are provided with the product. All are available from the Manufacturer.

Data contained in the aforesaid type of documentation should be consulted with a fire-safety professional before specifying or using the product.

Any further questions or assistance concerning particular problems that might arise, relative to the proper functioning of the equipment, please contact the Manufacturer.



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