

# Notification Appliances

## 'Acend' Intelligent Series – High Fidelity Speaker | Speaker- Strobes

Applications : Indoor, Ceiling-Only

### Architect & Engineer Specifications

- Compatible with the Siemens Cerberus PRO Modular and Desigo Modular Fire Alarm Control Panels (FACPs) via the XNLC card
- Self-Testing Capability with Disturbance-Free Testing (DFT<sup>technology</sup><sup>™</sup>)
  - Momentary Functional Test meets NFPA 72 functional test requirements
- Addressable Devices with unique addresses
- Built-in ISO<sup>Technology</sup><sup>™</sup>
- Cloud Connectivity and Compatibility
- Energy Efficient and Sustainable
  - Siemens EcoTech Certification
- LED Status Indicator
- Six (6) Configurable Candela settings: 15cd | 30cd | 75cd | 110cd | 135cd | 185cd
- Five (5) field-selectable Wattage settings for multi-level speaker audio outputs
  - 1/8 to 2 Watts
- Tamper Resistant
- UL 1480 | UL 1638 | UL 1971 Listed
- ULC 526 | ULC 541 Listed
- FCC Part 15 and RoHS Compliant

### Product Overview

The Acend<sup>™</sup> Intelligent notification appliances are the first of their kind; addressable, self-testing and with built-in isolators (ISO<sup>Technology</sup><sup>™</sup>). These intelligent high fidelity speakers are designed for smart connectivity and greater efficiency to meet the ever evolving industry needs.

Acend<sup>™</sup> Intelligent series notification appliances feature the latest cutting-edge technology:

- **Self-Testing Capability** – Self-testing ensures smoother operations, increases up-time, boosts inspection accuracy, and streamlines testing and inspection procedures. Cloud-Exclusive Disturbance-Free Testing (DFT<sup>technology</sup><sup>™</sup>) reduces disruptions and improves business continuity. Available self-tests include the **Discreet Test** (Disturbance-Free) and the **Momentary Functional Test**. The Momentary Functional Test meets annual functional test requirements of NFPA 72. (**Note:** Visual inspection is still required.)
- **Addressability** – Every 'Acend' Intelligent series device has a unique digital address. This addressable feature allows for individual customizations in a single device or categorization of devices into logical groups. The addressable intelligent devices can be programmed for test or activation on multiple notification zones on one circuit. Devices can also be programmed to activate/test on a zone level, to prevent interruption in other zones and even on a single device level. Configuration of various device attributes is available using the Modular system's ZEUS configuration tool.
- **Built-in ISO<sup>Technology</sup><sup>™</sup>** – The built-in 'Class X' isolation technology allows seamless integration, efficient maintenance and quicker troubleshooting of these appliances. This isolation feature greatly improves reliability, circuit integrity and provides advanced addressable fault finding. It also streamlines system design and use of resources, making installation and maintenance costs more efficient. With 'Class X' isolation, a short circuit situation between two appliances will not shut down the circuit, providing great system survivability.
- **LED Status Indicator** – The 'Acend' Intelligent series notification appliances are designed with a built-in LED, which indicates the real-time system status such as *Alarm, Trouble, and Normal*.
- **Cloud Connectivity** - Every intelligent addressable appliance in this series is designed with automation in mind. By connecting to the Modular system panels to the cloud, these appliances can provide real-time information like device status, test reports, troubles, etc. They can also be monitored through a cloud interface and initiate self-tests via *Building X* Fire Apps.

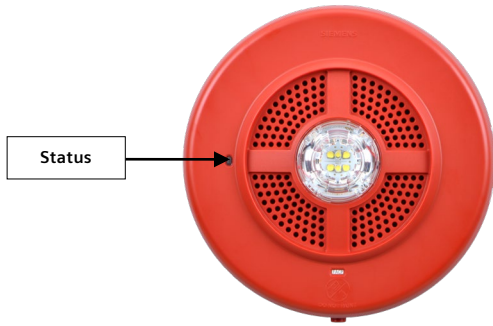


Speaker



Speaker-Strobe





### LED Status Indicator

Status	Color	Flashing	Description
Alarm	Red	1× per 10s	Indicates that fire alarm and signaling is activated.
Trouble	Yellow	1× per 4s	Indicates that the appliance has unresolved reported troubles.
Normal	Green	1× per 10s	Indicates that the appliance works in normal mode.

### Product Overview

All 'Acend' Intelligent series devices have 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.

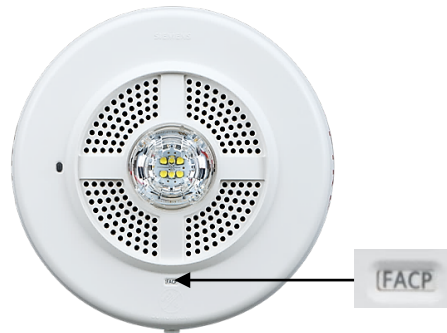
These appliances are specifically designed for Lower Energy consumption and can be refitted with field adaptable hardware including alternate covers and colored lenses.

All the 'Acend' Intelligent devices have T-tap compatibility. **Note:** To take full advantage of the ISOtechnology features and to achieve 'Class X' systems, T-Tapping should be avoided.

### Specifications

Models 'SA-SP-C' - series Speakers and 'SA-SS-C' - series Speaker-Strobes can be programmed with the Modular Panel ZEUS configuration tool. Using the addressability feature, an individual speaker can be customized to play specific messages without activating other speakers in the same room or zone. Utilizing unique logic options, these speaker and speaker-strobe devices can also be installed on the same notification circuit along with the other intelligent notification appliances like horns, strobes or low frequency sounders. Activation of these notification appliances can be based on specific inputs, such as Alarm, Gas, Smoke, Heat, etc.

**Note:** Voice messages do not travel on the XNLC's SLC circuit. Speakers will need to be wired to the amplifier even when installed together with the other intelligent appliances on the same notification circuit.



These speaker and speaker-strobe appliances have five (5) field-selectable Wattage settings for multi-level speaker audio outputs. **Note:** Wattage settings needs to be adjusted in the device itself using the wattage selector.

The 'Acend' Intelligent series speaker-strobes meet the 20-millisecond light-pulse-duration requirements of the 2022 edition of NFPA 72. These high efficiency addressable notification appliances have a vast frequency range of 300-8000Hz.

**Note:** If the appliances are required to produce a distinctive three-pulse Temporal Pattern Fire Alarm Evacuation Signal (for total evacuation) in accordance with NFPA 72, the appliances must be used with a fire alarm control unit that can generate the temporal pattern signal.

The 'Acend' Intelligent series speaker and speaker-strobe appliances are designed for low current draw (16 – 32 VDC) with a flash rate of 1 Hz. All appliances have dual-voltage (25/70.7 VRMS) capability with field-selectable taps from 1/8 to 2 Watts.

The speaker-strobe devices have six (6) configurable Candela Settings: 15cd | 30cd | 75cd | 110cd | 135cd | 185cd.

The Speaker and Speaker-strobe appliances have convenient mounting options for faster and easier installation.

These appliances are tamper-resistant when used in conjunction with the LK-11 locking screw.

All inputs employ five IN / OUT wiring terminals, using #12 to #18 AWG wiring.

The 'Acend' Intelligent Speaker and Speaker-Strobe appliances are UL / ULC listed for indoor ceiling-mount applications.

Standard Listings for these appliances: UL 1480, UL 1638, UL 1971 | ULC 526, ULC 541 | FCC Part 15 | ROHS

## Compatibility

The Acend Intelligent appliances are not backwards compatible with conventional notification appliances. The intelligent speakers get connected to the Acend Intelligent circuit off of the XNLC card of the modular panel. The voice messages are transmitted via the amplifier circuit, which lands on a second set of terminals on the mounting plate (5 total wire terminals). The Acend Intelligent speakers are not compatible with any other Siemens panels, 3rd party panels, or PADs. Acend Intelligent appliances are not able to be installed on the same circuits as initiating devices (even though they may all be addressable), and must be on their own dedicated circuits.

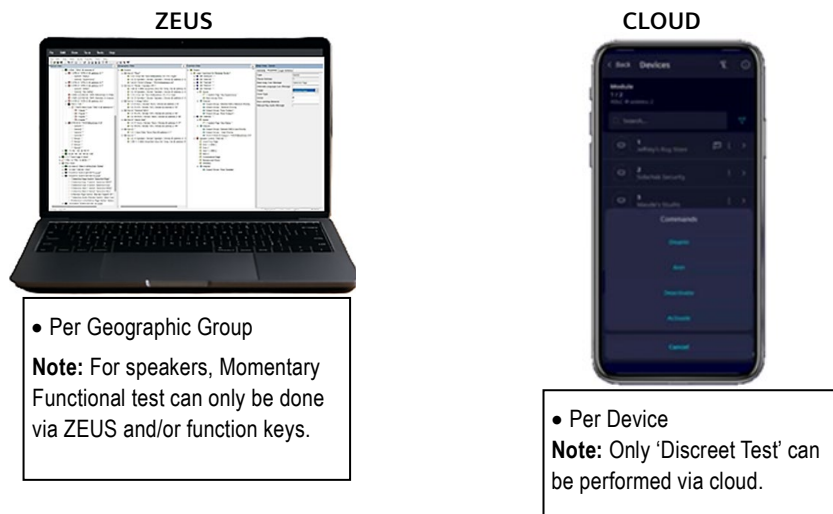
## Self-Testing with DFT<sup>technology</sup>

The Acend Intelligent devices offer powerful and unique Self-Testing options:

- **Discreet Test ( Disturbance-Free)**
  - Strobes may produce a very brief dim-glow and audibles should be limited to a click.
  - Small currents are passed through the audible and visible (strobe) elements.
  - Checks elements for electrical viability.
  - Superior to self-supervision. Self-supervision happens continuously and automatically on all Acend intelligent appliances, but the supervision does not have nearly the same diagnostic range as the discreet self-test.  
**Note:** Discreet Test ( Disturbance-Free) can be initiated via Cloud only.
- **Momentary Functional Test (Short Duration Test)**
  - Speakers will produce a 4KHz tone (Tone volume can be set using the Zeus configuration tool during the test.)
  - Use of sensors to verify production of sound and/or light.
  - Test history logs will show 'start' and 'end' time.
  - Any issues or faults will be reported on the PMI and the logs.
  - Strobes will flash the whole time.
  - Speakers will play audio for full 15 seconds. (Audio plays longer if there are more than 30 appliances per audio group.)
  - This test meets annual functional test requirements of NFPA 72.  
**Note:** Visual inspection is still required
  - The Momentary Functional Test must be configured and can vary based on how the test functions are set up.
  - This test is initiated using the ZEUS configuration tool or the panel firmware / programming. **This testing option verifies the functionality of both the speaker and the amplifier** of the intelligent Speaker and Speaker-strobe appliances.
  - The strobe portion of a speaker-strobe is always tested along with audio (it's not possible to test the elements separately).
  - **Important:** Unlike for horns, strobes, and LF sounders, the Momentary Functional Test cannot be initiated from the cloud for speakers/speaker strobes

**Note:** Acend Intelligent appliances will sync across XNLC cards in the same panel. They will also sync between transponders networked using NIC-C's or XINC's with Ethernet or Fiber modules.

There are 2 Ways to Initiate Self-Tests: using **ZEUS** configuration tool or via **Cloud**.



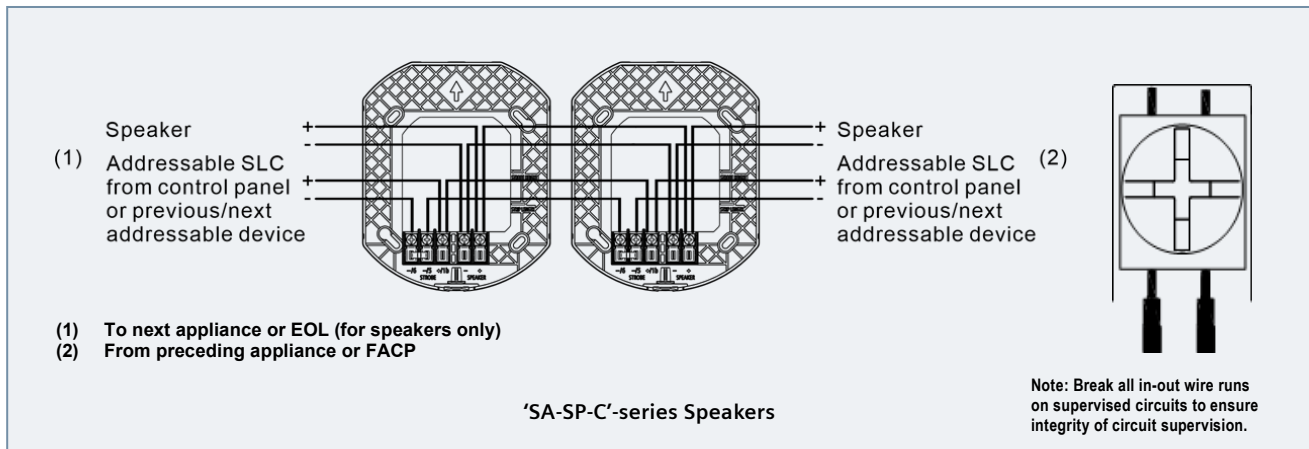
**Note:** Acend Intelligent appliances will sync across XNLC cards in the same panel including transponders networked using NIC-C's or XINC's, using Ethernet or Fiber modules.

## Accessories (Addressability / Testing )

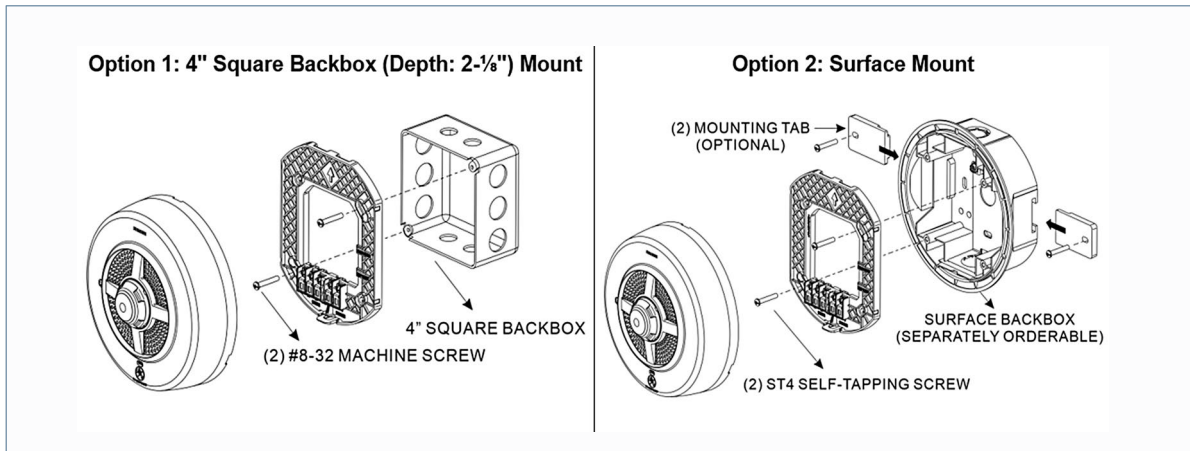
### Acend DPU/FFA Adapter for Programmer/Tester

The ACEND-ADPT Adapter is a mechanical interface, compatible with the DPU and the Fire Field Assist (FFA). This adapter is required for assigning addresses to the Acend Intelligent appliances and/or interacting with the FFA's additional features (i.e. self-testing). **Note:** Only one adapter is needed per DPU/FFA, not per notification appliance. (Refer to Datasheet# 2622 for more information)

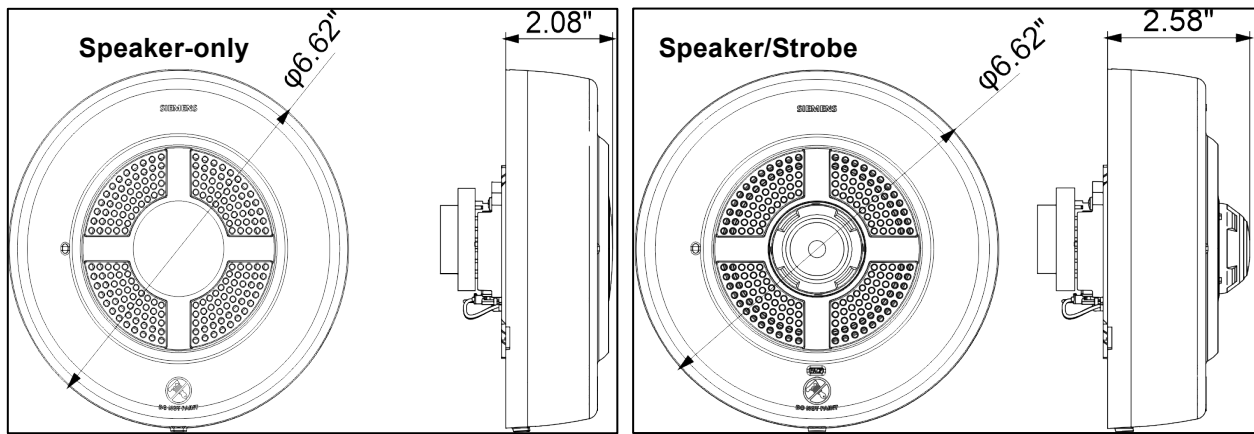
## Wiring Diagrams



## Mounting Diagrams



## Dimensions



The dimensions and footprint are the same between Acend conventional and intelligent appliances.

## Electrical Ratings

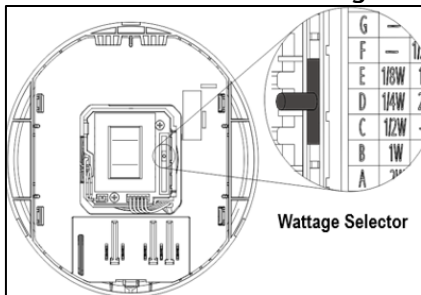
### Speaker Output Ratings (UL/ULC) (Max.)

dBA (Watts) @ 10 feet						
Models	Voltage (Vrms)	1/8W	1/4W	1/2W	1W	2W
SA-SP-CR-F	25 / 70.7	75	79	82	84	87
SA-SP-CW-F	25 / 70.7	75	79	82	84	87
SA-SS-CR-F	25 / 70.7	75	79	82	84	87
SA-SS-CW-F	25 / 70.7	75	79	82	84	87

### Strobe | Output Current Draw (UL) (Max.)

Current Draw (mA) @ Voltage Range 16.0 – 32.0 VDC						
Models	Candela Settings					
	15cd	30cd	75cd	110cd	135cd	185cd
SA-SS-CR-F	20	20	44	73	141	173
SA-SS-CW-F	20	20	44	73	141	173

### Wattage Settings



Position	Speaker Voltage	
	25Vrms	70.7Vrms
H	-	1/8W
G	-	1/4W
F	-	1/2W
E	1/8W	1W
D (default)	1/4W	2W
C	1/2W	-
B	1W	-
A	2W	-

### Speaker | Speaker -strobe | Supervisory Current Draw (UL) (Avg.)

Models:	Supervisory Current (mA)
SA-SP-CR-F	0.27
SA-SP-CW-F	
SA-SS-CR-F	0.69
SA-SS-CW-F	

## Technical Data

### General Properties

'Acend' Intelligent Series Speaker / Speaker-Strobes	
<b>OPERATING TEMPERATURE:</b>	- 32°F (0°C) to 122°F (50°C) - for indoor applications only
<b>RELATIVE HUMIDITY:</b>	95%
<b>OPERATING VOLTAGE RANGES:</b>	- 25 / 70.7 VRMS - field-selectable power taps: 1/8 Watt to 2 Watts
<b>STROBE OUTPUT RATING:</b>	- Six Configurable Candela outputs: 15cd   30cd   75cd   110cd   135cd   185cd
<b>STROBE FLASH RATE:</b>	1 Hz
<b>FREQUENCY RANGE:</b>	- 300 Hz to 8000 Hz.
<b>STROBE SYNCHRONIZATION:</b>	Compatible with Cerberus PRO Modular and Desigo Modular Panel Systems Only (on the XNLC card)
<b>SPEAKER VOLTAGE: (STANDBY)</b>	16VDC Max.
<b>SPEAKER SOUND OUTPUT</b>	Five (5) field selectable audio outputs [ Wattage setting (1/8W to 2W) ]

### Physical Properties

'Acend' Intelligent Series Speaker / Speaker-Strobes	
<b>MATERIAL:</b>	All appliances are made from environmentally friendly recyclable plastics.
<b>WEIGHT:</b>	Speakers: 839 gm (1.85 lb.) Speaker-Strobes: 839 gm (1.85 lb.)
<b>LENS TYPE:</b>	LED strobe situated in a rugged Lexan lens
<b>DIMENSIONS:</b>	<b>Speakers:</b> 6.6" (16.7 cm.) x 2.0" (5.0 cm.) <b>Speaker-Strobes:</b> 6.6" (16.7 cm.) x 2.5" (6.3 cm.)

### Mounting and Wiring Properties





'Acend' Intelligent Series Speaker / Speaker-Strobes	
<b>INDOOR MOUNTING:</b>	- Ceiling-mount applications - 4" (10.2 cm.) Square Backbox (Gang mount) or Surface Backbox (Surface mount)
<b>WIRING TYPE:</b>	#12 – #18, American Wire Gauge (AWG)

**Note:** Surface mount Backboxes are ordered separately.

#### 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.





Details for Ordering

MODEL	PART NUMBER	APPLIANCE TYPE	STROBE TYPE	FACEPLATE COLOR	MOUNTING TYPE	FACEPLATE LETTERING	IMAGE
SA-SP-CR-F	S54362-F2-A1	Speaker	- None -	RED	CEILING	FIRE	
SA-SP-CW-F	S54362-F2-A2		- None -	WHITE	CEILING	FIRE	
SA-SS-CR-F	S54362-F4-A1	Speaker-Strobe	Clear	RED	CEILING	FIRE	
SA-SS-CW-F	S54362-F4-A2		Clear	WHITE	CEILING	FIRE	

### Related Hardware

Model	Part Number	Description	Image
ACEND-ADPT	S54370-F70-A1	Acend DPU Adapter, compatible with the DPU and Fire Field Assist (FFA). This is required for any project using Acend Intelligent devices. It is used for addressing Intelligent appliances and interfacing with the programmer/tester. Only one adapter is needed per DPU/FFA, not per notification appliance.	
SMB-SS-CR	S54370-F60-A1	Red surface mount backbox for ceiling mounted speakers and speaker/strobes.	
SMB-SS-CW	S54370-F61-A1	White surface mount backbox for ceiling mounted speakers and speaker/strobes.	
SCVR-SS-CR-EMG	S54370-F41-A1	Red plastic cover for ceiling mounted speakers and speaker/strobes with "EMERGENCY" text.	
SCVR-SS-CW-EMG	S54370-F42-A1	White plastic cover for ceiling mounted speakers and speaker/strobes with "EMERGENCY" text.	
SCVR-SS-CR-ALR	S54370-F45-A1	Red plastic cover for ceiling mounted speakers and speaker/strobes with "ALERT" text.	
SCVR-SS-CW-ALR	S54370-F46-A1	White plastic cover for ceiling mounted speakers and speaker/strobes with "ALERT" text.	
SCVR-SS-CR-AGT	S54370-F49-A1	Red plastic cover for ceiling mounted speakers and speaker/strobes with "AGENT" text.	
SCVR-SS-CW-AGT	S54370-F50-A1	White plastic cover for ceiling mounted speakers and speaker/strobes with "AGENT" text.	
SCVR-SS-CR-HOF	S54370-F53-A1	Red plastic cover for ceiling mounted speakers and speaker/strobes with "HOUSE ON FIRE" logo.	
SCVR-SS-CW-HOF	S54370-F62-A1	White plastic cover for ceiling mounted speakers and speaker/strobes with "HOUSE ON FIRE" logo.	
SCVR-SS-CR-BNK	S54370-F56-A1	Red plastic cover for ceiling mounted speakers and speaker/strobes with no text.	
SCVR-SS-CW-BNK	S54370-F57-A1	White plastic cover for ceiling mounted speakers and speaker/strobes with no text.	

Related Hardware (cont.)

Model	Part Number	Description	Image
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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