Simplex

*UL, ULC, CSFM Listed;FM Approved; MEA (NYC) Acceptance**

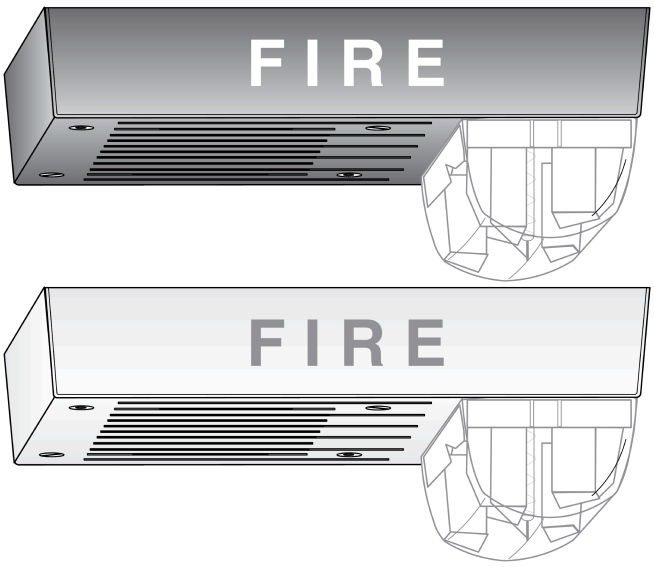
Datasheet

TrueAlert Addressable Notification Appliances

Multi-Candela Audible/Visible (A/V) Appliances; Ceiling Mount

Features

Figure 1: Ceiling mount addressable A/Vs



Individually addressed and controlled multi-candela A/V (audible/visible) notification appliances provide:

- Multi-candela xenon strobe with synchronized 1 Hz flash rate and with intensity, programmable from the control panel, or jumper selected as 15, 30, 75, or 110 cd
- Advanced addressable notification controlled by IDNAC SLCs that supply regulated 29 VDC that enable strobes to operate with lower current even under battery backup
- Wiring supervision to each strobe that enables T-tapped connections for class B circuits to simplify wiring. Class A circuits require in/out wiring.
- TrueAlert device reports at the control panel that detail appliance point ID, custom label, type, and candela setting
- Magnet test diagnostics to assist checkout and testing of appliances and wiring
- Compatibility with ADA requirements
- Compatibility with legacy TrueAlert addressable systems for upgrade and replacement. See TrueAlert strobe legacy compatibility reference.
- Strobe operation listed to UL Standard 1971 and ULC Standard S526
- Horn operation listed to UL Standard 464 and ULC Standard S525

LED indicator and magnet test feature:

- You can select the appliance LED to display each polling cycle to indicate appliance supervision
- In diagnostic mode, the magnet test pulses the LED to indicate appliance address and pulses to indicate the intensity selection. You can also select a brief output of the strobe and the horn to confirm operation.

Mechanical design features:

- Rugged, high impact, flame retardant thermoplastic housings are available in red or white
- The rear of the housing does not extend into the box and easily mounts to standard electrical boxes
- Mounting options include red wire guards and adapters for surface mount electrical boxes

Audible notification appliance (horn):

- Low current electronic horn with harmonically rich output sound for either coded or steady operation
- Horns sound as Temporal or March Time pattern (60 or 120 BPM), or continuously on, controlled separately from visible appliances on the same two-wire circuit
- Output is high or low (~5 dBA difference). IDNAC SLC control selects output for each device

Description

Multi-candela TrueAlert addressable A/Vs provide convenient installation to standard electrical boxes. Operation is individually addressed and individually controlled with power, supervision, and control supplied from a Simplex fire alarm control panel that provides IDNAC Signaling Line Circuits (SLCs).

Strobe application reference

Correct selection of visible notification is dependent on occupancy, location, local codes, and correct applications of the following:

- The National Fire Alarm and Signaling Code (NFPA 72), ANSI A117.1
- The appropriate model building code: BOCA, ICBO, or SBCCI
- The application guidelines of the Americans with Disabilities Act (ADA)

IDNAC SLC operation advantage

TrueAlert A/V Addressable Appliances on IDNAC SLCs provide audible and visible notification through a single two-wire circuit that also confirms connection to the individual notification appliance's electronic circuit. This operation increases circuit supervision integrity by providing supervision that extends beyond the appliance wiring connections.

Reduced current enables efficient IDNAC SLC operation. With IDNAC SLCs, a constant 29 VDC source voltage is maintained, even during battery standby. This enables strobes to operate at higher voltage with lower current and ensures a consistent current draw and voltage drop margin under both primary power and secondary battery standby. Efficiencies include wiring distances up to 2 to 3 times farther than with conventional notification, or support for more appliances for each IDNAC SLC, or use of smaller gauge wiring, or combinations of these benefits. All give installation and maintenance savings with high assurance that appliances that operate during normal system testing also operate during worst-case alarm conditions.

Reducing installation and testing time. With separate controls on the same two-wire SLC, a significant reduction in installation time and expense for both retrofit and new construction is possible. When class B wiring is used, T tapped wiring is possible. This enables more savings in distance, wire, conduit size, conduit utilization, and overall installation efficiency. Use of the magnet test feature improves installation efficiency. TrueAlert device reports conveniently identify information about each connected appliance.

TrueAlert addressable wiring isolator

Isolator model 4905-9929 is available for remote mounting on TrueAlert addressable circuits to isolate short circuited wiring from functioning wiring. Refer to datasheet *TrueAlert Addressable Isolator+ Module, Model 4905-9929 (S4905-0001)* for additional information.

* This product has been approved by the California State Fire Marshal (CSFM) pursuant to Section 13144.1 of the California Health and Safety Code. See CSFM Listing 7125-0026:239 for allowable values and/or conditions concerning material presented in this document. Accepted for use – City of New York Department of Buildings – MEA35-93E. Additional listings may be applicable; contact your local product supplier for the latest status. Listings and approvals under Time Recorder Co. are the property of Tyco Safety Products Westminster.

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TrueAlert addressable diagnostics

Test Features. You can select controllers to pulse each appliance's LED when it receives a supervision poll. When the controller is selected for diagnostic mode, the appliance magnet test feature provides a response at the individual appliance being tested.

Silent appliance magnet test. In this test mode, in response to the magnet test, the appliance LED pulses sequentially to conveniently indicate the appliance's address.

Operational appliance testing. In this test mode, after the address is indicated by pulsing the appliance LED, the strobe briefly flashes and the horn briefly sounds to indicate correct operation.

TrueStart Instrument Two (TSIT). The second generation of the Simplex TrueStart Test Instrument adds testing of IDNAC SLC wiring and TrueAlert (and TrueAlert ES) appliances to its ability to test IDCs, NACs, and IDNet communications before connection to the control panel. Contact your local Simplex representative for additional information.

Product selection

Table 1: Multi-candela ceiling mount addressable A/Vs

SKU	Housing color	FIRE lettering	Description	Dimensions, in. (mm)
4906-9228	Red	White	Addressable horn with multi-candela strobe. You can select the intensity as: 15, 30, 75, or 110 candela.	4 3/4 L x 6 7/8 W x 2 5/8 D (121 x 175 x 67)
4906-9230	White	Red		

Table 2: Wire Guards and Ceiling Mount A/V Adapter

SKU	Description		Dimensions , in. (mm)
4905-9927 See note.	Red Wire Guard for mounting to flush mounted electrical box		8 1/2 x 6 1/8 x 3 (216 x 156 x 76)
4905-9928 See note.	Red adapter plate, required for surface mount guard.		9 x 7 (229 x 178)
	White	Surface mount adapter box extension, use to cover 1 1/2 in. deep surface mounted boxes.	4 3/4 x 6 7/8 x 1 1/2 deep (121 x 175 x 38)
4905-9916	Red		
Note: UL listed by Space Age Electronics Inc.			

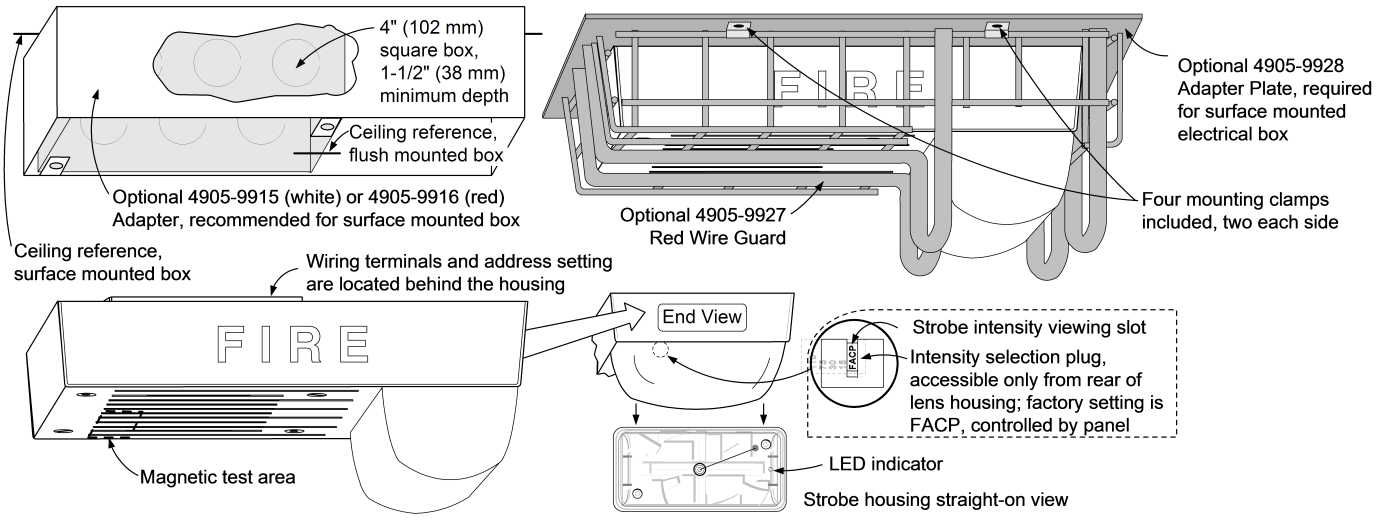
TrueAlert Device Reports Reference

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Service Port                                                        Page 1
REPORT 5 : TrueAlert Device Report                  12:34:56am  TUE  27-Jan-15

                                                      DEVICE
POINT ID     CUSTOM LABEL                               TYPE      CANDELA
T14-1-1      Location Label . . . up to 40 characters    V/O           15
T14-1-2      Break Room 5                                A/V          110
T14-1-3      Boiler Room                                 A/V           75
T14-1-4      Elec. Room 7                                A/V           30
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Ceiling Mount A/V and Guard installation reference

Figure 2: Ceiling Mount A/V and Guard installation reference



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IDNAC SLC controller compatibility reference

Table 3: IDNAC SLC controller compatibility reference

Compatible controllers	Datasheet	Controller output	IDNAC SLC output voltage	Appliance voltage design reference
4100ES with EPS+ or EPS Power Supply	*S4100-0100*	IDNAC SLC	29 VDC, regulated	23 VDC with 6 VDC drop
4009 IDNAC Repeater	*S4009-0004*			
4007ES with IDNAC Notification	*S4007-0002*			
4010ES with ESS Enhanced System Supply	*S4010-0011*			

Specifications

Table 4: General specifications

Specification	Rating
Environmental	32° to 122° F (0° to 50° C). 10% to 93%, non-condensing at 100° F (38° C)
Connections	Terminal blocks for 18 AWG to 12 AWG (0.82 mm^2 to 3.31 mm^2). Two wires for each terminal for in/out wiring.
Installation instructions	*4906 Series TrueAlert Addressable Multi-Candela Notification Appliances Installation Instructions (579-808).*

Table 5: Electrical specifications

Specification	Rating							
Typical operating voltage range	23 VDC to 31 VDC, Special Application. See Table 8 for 17 VDC rating.							
Supervisory requirements	1 unit load (0.8 mA control panel current)							
Flash rate and synchronized SLC loading	1 Hz, with up to 46 synchronized strobes maximum for each NAC							
Candela setting	**15 cd**		**30 cd**		**75 cd**		**110 cd**	
Horn output selection	**High**	**Low**	**High**	**Low**	**High**	**Low**	**High**	**Low**
23 VDC RMS current ratings, for connection to IDNAC addressable SLCs, horn steady on	75 mA	70 m A	114 mA	109 mA	233 mA	227 mA	289 mA	283 mA

Table 6: Horn Output

Specification		Rating			
Horn output characteristics		2400 to 3700 Hz sweep, modulated at 120 Hz rate			
Horn output ratings at 10 ft (3 m).	**Sound type** See note.	Steady		Coded	
	Setting	High	Low	High	Low
	Reverberant chamber, UL 464 test	84.6 dBA	79.1 dBA	80.6 dBA	75.5 dBA
	Anechoic chamber	90 dBA	84 dBA	86 dBA	80 dBA
Note: Coded horn values are typical of the output measured with a Temporal or March Time pattern and with a sound level meter reading on a fast setting. Under the same test conditions, coded horn output peak sound level readings are typically 4 dBA higher.					

TrueAlert strobe legacy compatibility reference

Table 7: TrueAlert strobe legacy compatibility reference

Compatible controller	Datasheet	Controller output	Available strobe intensity	Appliance voltage minimum
4100ES or 4100U with TrueAlert Power Supply	*S4100-0031*	TrueAlert addressable SLC	15, 30, 75, and 110 cd	17 VDC
4009 TPS, Remote TrueAlert Power Supply	*S4100-0037*			
TrueAlert Addressable Controller (4009T)	*S4009-0003*			

Table 8: Electrical ratings difference for retrofit applications

Voltage range	17 VDC to 31 VDC, special application							
Candela setting	**15 cd**		**30 cd**		**75 cd**		**110 cd**	
Horn output selection	**High**	**Low**	**High**	**Low**	**High**	**Low**	**High**	**Low**
17 VDC RMS current ratings, use when connected to TrueAlert addressable SLCs as previously referenced	88 mA	83 mA	135 A	130 mA	291 mA	285 mA	399 mA	393 mA

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