Simplex

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

Datasheet

TrueAlert Addressable Notification Appliances

Multi-Candela Visible Only (V/O) Appliances (Strobes), Ceiling Mount

Features

Individually addressed and controlled multi-candela V/O 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 enables strobes to operate with lower current even under battery backup
- Wiring supervision to each strobe that enable T-tapped connections for Class B circuits to simplify wiring. Class A circuits require in/out wiring.
- **TrueAlert Device Reports** at the control panel detailing 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
- * UL listed to Standard 1971 and ULC-S526

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 the appliance address and pulses to indicate the intensity selection. You can also select a brief output of the strobe to confirm operation

Mechanical design features:

- Rugged, high impact, flame retardant ceiling mount 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 mounted electrical boxes

Description

Multi-candela TrueAlert addressable strobes

Multi-Candela TrueAlert addressable strobes provide convenient installation to standard electrical boxes. The strobe 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

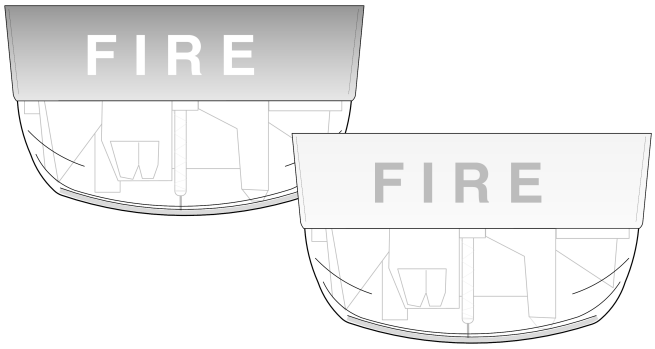
Correct selection of visible notification depends on occupancy, location, local codes, and correct applications of the following:

- 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 addressable appliances on IDNAC SLCs provide separate visible, and audible 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 the provision of supervision that extends beyond the appliance wiring connections.

Figure 1: Ceiling mount addressable V/Os



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 ensuring 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 *(S4905-0001)* for additional information.

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's LED, the strobe briefly flashes 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.

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Product selection

Table 1: Multi-candela ceiling mount addressable strobe

Model	Housing color	FIRE lettering	Description	Dimensions, in. (mm)
4906-9202	Red	White	Multi-candela addressable strobe. You can select the intensity as: 15, 30, 75, or 110 candela	4 3/4 x 2 5/16 x 2 5/8 D (121 x 75 x 67)
4906-9204	White	Red		

Table 2: V/O Adapters

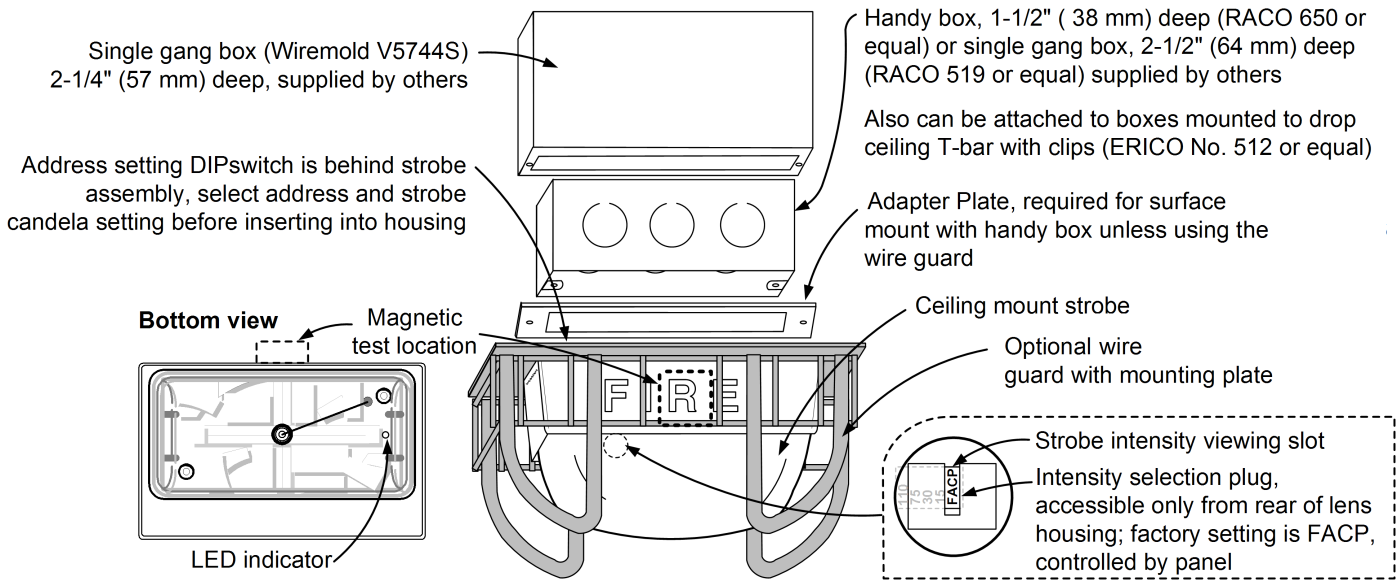
Model	Description	Dimensions, in. (mm)
4905-9910	Ceiling mount, surface mount adapter plate, zinc plated. Required for ceiling surface mount.	4 7/8 x 3 1/8 (124 x 79)

Table 3: Wire guards

Model	Description	Dimensions, in. (mm)
4905-9926 This model is UL listed by Space Age Electronics Inc.	See Figure 2. Ceiling Mount Red wire guard with mounting plate, compatible with semi-flush or surface mounted boxes	6 1/8 x 4 3/8 x 2 7/8 (156 x 111 x 73)

Ceiling mount V/O and guard installation reference

Figure 2: Ceiling mount V/O and guard installation



IDNAC SLC controller compatibility reference

Table 4: Compatibility Reference

Compatible controllers	Datasheet reference	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*			

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Specifications

Table 5: 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 6: Strobe Specifications

Specification	Rating			
Typical operating voltage range	23 VDC to 31 VDC, special application. See below 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
23 VDC RMS current ratings, for connection to IDNAC addressable SLCs	60 mA	95 mA	212 mA	277 mA

TrueAlert strobe legacy compatibility reference

Table 7: TrueAlert Strobe legacy compatibility reference

Compatible controller	Datasheet reference	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**
17 VDC RMS current ratings, use when connected to TrueAlert addressable SLCs as referenced previously	79 mA	128 mA	282 mA	390 mA

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