Simplex

True*Alert* Addressable Notification Appliances

*UL, ULC, CSFM Listed**

Dual Emergency Communication Appliances, Clear/Amber Strobes

Features

Individually addressed and separately controlled multi-candela V/O (visible only) notification appliance with one amber ALERT strobe and one clear lens FIRE strobe provides:

- Combination unit allows mounting two visible notification appliances at the same installation site
- Multi-candela xenon strobes 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*** from Simplex® 4100ES fire alarm control panels with EPS/EPS+ power supplies (and 4009 IDNAC Repeaters) providing ***regulated 29 VRMS*** allowing strobes to operate with lower current even under battery backup
- Amber lens with "ALERT" lettering produces a signal unique from clear lens fire alarm evacuation strobes for use with Emergency Communications Systems
- Clear lens with "FIRE" lettering provides visible notification for fire alarm conditions
- Both strobes connect on same SLC, are separately addressed, and provide independent operation; (Operation is clear/Fire **OR** amber/Alert, **not both**)
- Wiring supervision to each strobe allowing "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 (see sample on page 2)
- ***Magnet test diagnostics*** to assist checkout and testing of appliances and wiring
- Compatibility with ADA requirements; (refer to important installation information on page 3)
- Compatibility with legacy TrueAlert addressable systems for upgrade and replacement (see page 4)
- Clear lens strobe is UL listed to Standard 1971, ULC listed to Standard S526
- Amber lens strobe is UL listed to Standard 1638 (due to non-white lens); and provides light dispersion patterns of UL Standard 1971; ULC listing is to Standard S526

LED indicator and magnet test feature:

- Each appliance LED can be selected 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***; a brief output of the strobe is also selectable to confirm operation

* 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 7125-0026:235 for allowable values and/or conditions concerning material presented in this document. FM approval and MEA (NYC) acceptance is not applicable. Additional listings may be applicable; contact your local Simplex product supplier for the latest status. Listings and approvals under Simplex Time Recorder Co. are the property of Tyco Safety Products Westminster.

Combination Clear/Amber Strobe Assembly (front and side view shown, available with red or white housing)

Mechanical design features:

- Rugged, high impact, flame retardant thermoplastic housing for flush or surface wall mount; available with red or white housing
- Individual strobe housings mount onto a common bracket that does not extend into box and easily mounts to standard electrical boxes
- Wall mount wiring terminal access is from front of housing to assist installation, inspection, and testing
- Mounting options include adapter skirts for surface mounting and box adapter plates

Description

Multi-Candela TrueAlert addressable combination strobes are individually addressed and individually controlled with power, supervision, and control supplied from a Simplex fire alarm control panel providing **IDNAC** Signaling Line Circuits (SLCs). (See compatibility list on page 4.) A single assembly provides an amber lens strobe for non-fire alarm, alert notification for use with Emergency Communications Systems, and a clear lens strobe for fire alarm notification.

Strobe Application Reference

Amber strobes used as part of an Emergency Communications system are located to provide the same area coverage as required of clear lens fire alarm strobes. Specific Emergency Communications requirements are discussed in detail in document UFC 4-021-01 (USA Department of Defense, United Facilities Criteria) and in NFPA 72, Chapter 24 (2010 and 2013 editions).

Proper strobe coverage criteria is further described in the *National Fire Alarm Code* (NFPA 72), ANSI A117.1; the appropriate model building code: BOCA, ICBO, or SBCCI; and the application guidelines of the Americans with Disabilities Act (ADA).

IDNAC SLC Operation Advantage

TrueAlert V/O Appliances with Addressable Strobes on IDNAC SLCs provide visible notification using 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 allows efficient IDNAC SLC operation. With ***IDNAC SLCs***, a ***constant*** 29 VRMS source voltage is maintained, even during battery standby, allowing 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 per IDNAC SLC, or use of smaller gauge wiring, or combinations of these benefits, all providing installation and maintenance savings with high assurance that appliances that operate during normal system testing will operate during worst case alarm conditions.

Reducing Installation and Testing Time. With separate controls on the same two-wire SLC, installation time and expense for both retrofit and new construction can be significantly reduced. When Class B wiring is used, *wiring can be "T" tapped*, allowing more savings in distance, wire, conduit (size and utilization), and overall installation efficiency. Use of the magnet test feature improves installation efficiency. TrueAlert device reports conveniently identify information about each connected appliance.

By providing an amber lens strobe with a clear lens strobe, the combination strobe assembly allows a single electrical installation to provide both types of visible notification.

TrueAlert Addressable Diagnostics

Test Features. Controllers can be selected 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 will briefly flash to indicate proper operation.

TrueStart Instrument Two (TSIT). The 2nd 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*. Please contact your local Simplex representative for additional information.

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 data sheet S4905-0001 for additional information.)

TrueAlert Device Reports detail type, candela rating, and location per appliance (see sample below, amber lens type is AMB).

Product Selection

Model	Housing Color	Description	Dimensions
4906-9208	Red	Multi-Candela Addressable Combination Strobe assembly with amber lens, ALERT strobe on top and clear lens, FIRE strobe on bottom; intensity selectable as: 15, 30, 75, or 110 candela	10 ¾" H x 5 ⅛" W x 3 $^{15}/_{16}$" D (273 mm x 130 mm x 100 mm)
4906-9211	White		
4905-9837	Red	Surface Mount Adapter Skirt, use to cover surface mounted electrical boxes	10 ½" H x 5 ¼" W x 1 ¾" D (267 mm x 133 mm x 44 mm) Total depth with strobe assembly = 5 ⅝" (143 mm)
4905-9847	White		
4905-9840	Red	Adapter Plate for mounting to installed Simplex Model 2975-9145 box; *for flush mounted boxes only*	12 $^{5}/_{16}$" H x 5 ¾" W x 0.06 thick (313 mm x 146 mm x 1.5 mm)

TrueAlert Device Reports Reference

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Service Port                                                          Page 1
REPORT 5 : TrueAlert Device Report                  12:34:56am  MON  17-Mar-14

                                                      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 Fire                            A/V            75
T14-1-4      Boiler Room Alert                           AMB            75
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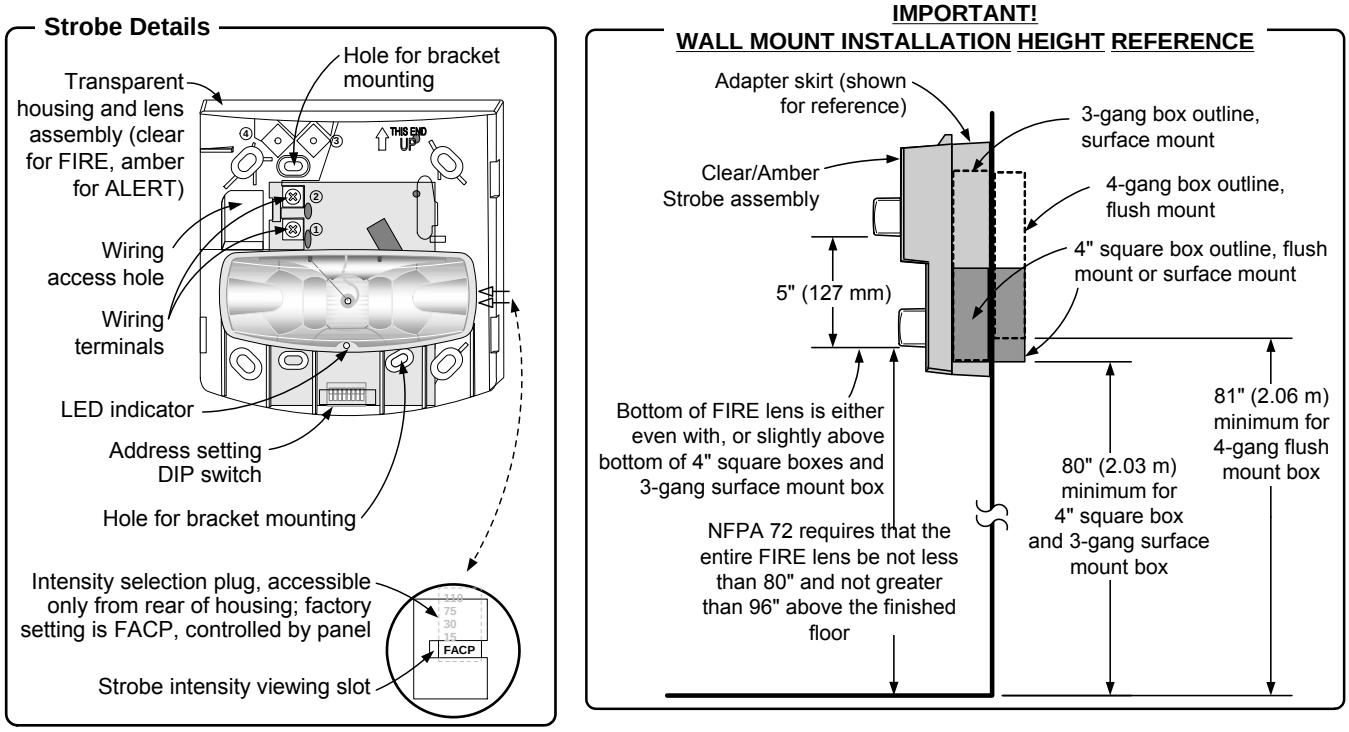
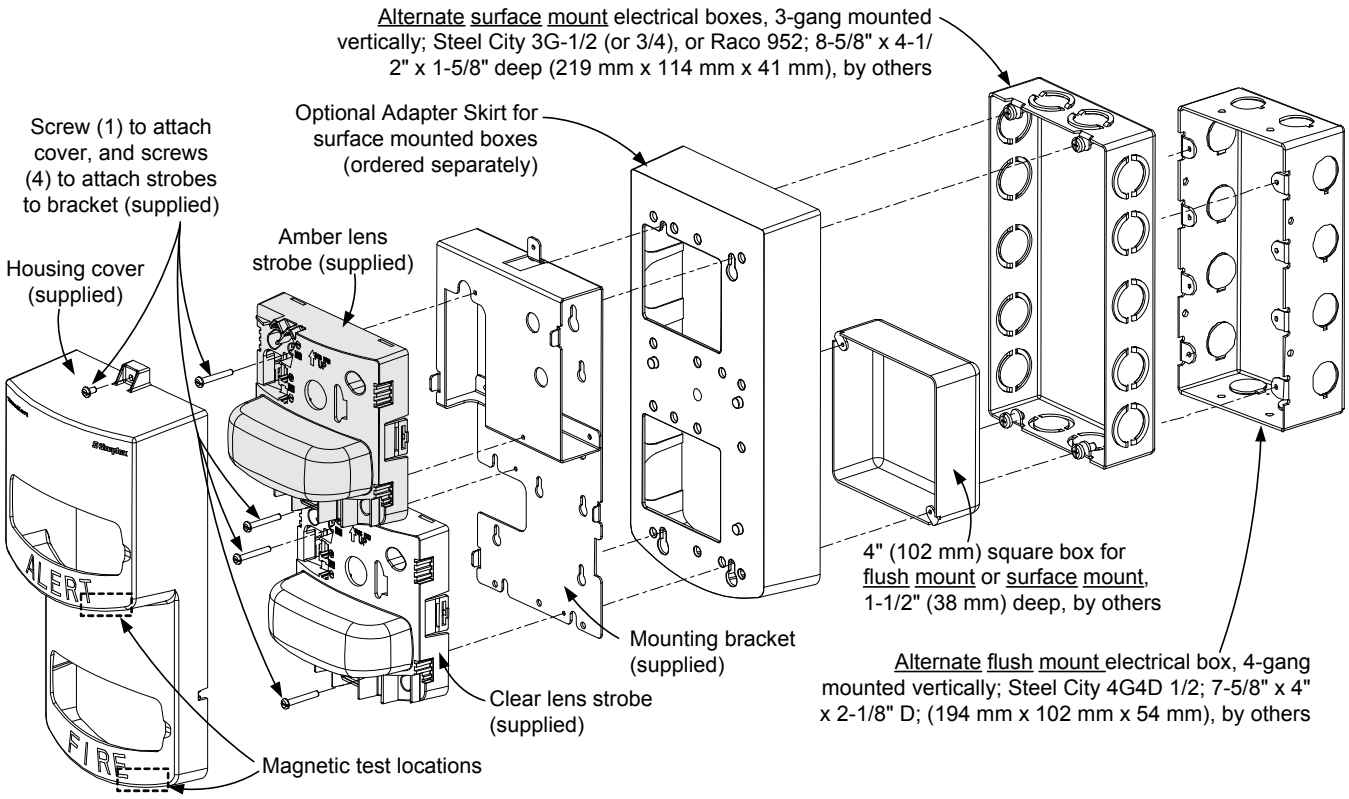
Strobe Details and Mounting Height Reference



Installation Reference



TrueAlert Strobe and IDNAC SLC Controller Compatibility Reference

Compatible Controller	Data Sheet Reference	Controller Output	IDNAC SLC Output Voltage	Appliance Voltage Design Reference
4100ES with EPS+ or EPS Power Supply	S4100-0100	IDNAC SLC	29 VRMS (regulated)	23 VRMS (with 6 VRMS drop)
4009 IDNAC Repeater	S4009-0004			

Specifications

Common Specifications (see page 2 for appliance dimensions)

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 per terminal for in/out wiring	
Installation Instruction Reference	Clear/Amber Strobes	579-847
	Adapter Skirts	574-790
	Adapter Plate	574-791

Strobe Specifications

Typical Operating Voltage Range	23 VRMS to 31 VRMS, Special Application (see below for 17 VRMS rating)			
Supervisory Requirements	1 unit load each, 2 unit loads total per 4906-9208			
Flash Rate and Synchronized SLC Loading	1 Hz; with up to 46 synchronized strobes maximum per NAC; maximum 30 Ω resistance between appliances			
Candela Setting	**15 cd**	**30 cd**	**75 cd**	**110 cd**
23 VRMS Current Ratings, for connection to IDNAC Addressable SLCs	50 mA	75 mA	137 mA	190 mA

Note: Amber strobes and clear strobes provide notification for two different functions and are not activated at the same time.

TrueAlert Strobe LEGACY Compatibility Reference

Compatible Controller	Data Sheet 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 VRMS
4009 TPS, Remote TrueAlert Power Supply	S4100-0037			
TrueAlert Addressable Controller (4009T)	S4009-0003			

Electrical Ratings Difference for Retrofit Applications

Voltage Range	17 VRMS to 31 VRMS, Special Application			
Candela Setting	**15 cd**	**30 cd**	**75 cd**	**110 cd**
17 VRMS Current Ratings, use when connected to TrueAlert Addressable SLCs per above	64 mA	98 mA	187 mA	253 mA

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