

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 Autocall 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
- **Magnet test diagnostics** to assist checkout and testing of appliances and wiring
- Compatibility with ADA requirements; (refer to important installation information in [Strobe Details and Mounting Height Reference](#) on page 3)
- Compatibility with legacy TrueAlert addressable systems for upgrade and replacement
- 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

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



Fig 1: Combination Clear/Amber Strobe Assembly (front and side view shown, available with red or white housing)

Description

Multi-Candela TrueAlert addressable combination strobes

are individually addressed and individually controlled with power, supervision, and control supplied from a Autocall 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).

* Additional listings may be applicable; contact your local product supplier for the latest status.

IDNAC SLC Operation Advantage

Single two-wire circuit

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 Autocall 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 Autocall representative for additional information.

TrueAlert Wiring Isolator

Isolator Model A4905-9929

A4905-9929 is available for remote mounting on TrueAlert addressable circuits to isolate short circuited wiring from functioning wiring. (Refer to data sheet *AC4905-0001* for additional information.)

TrueAlert Device Reports

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

Strobe Details and Mounting Height Reference

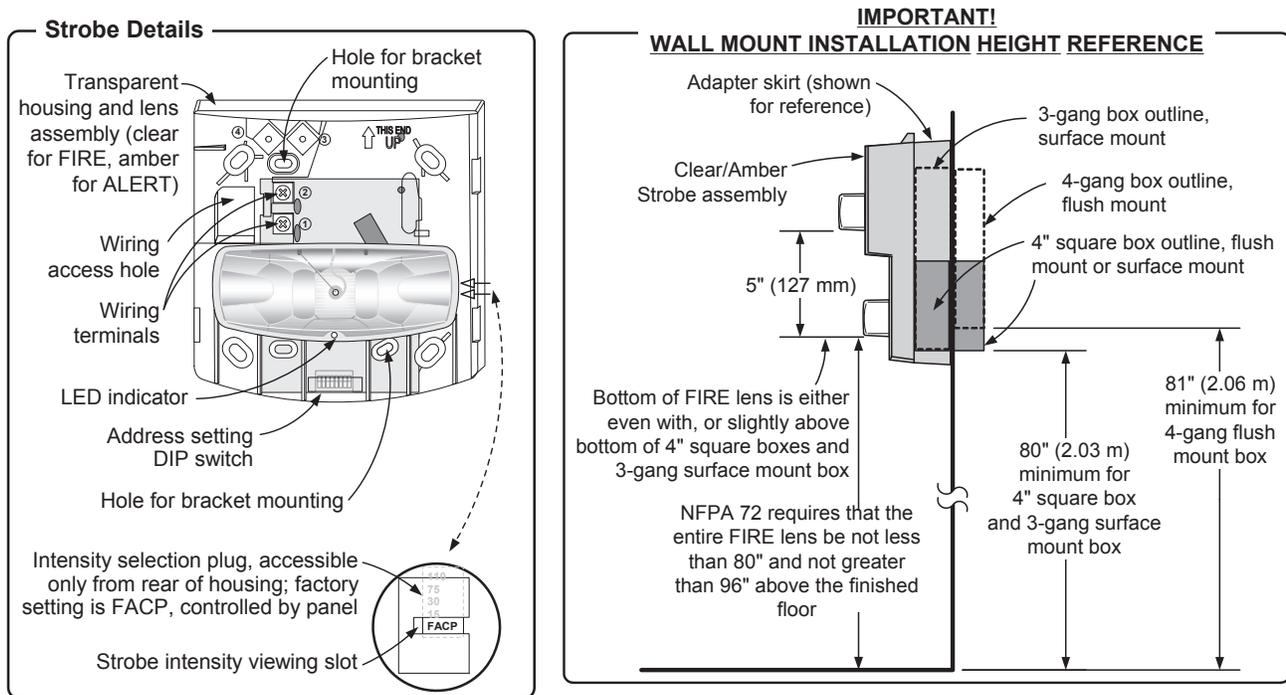
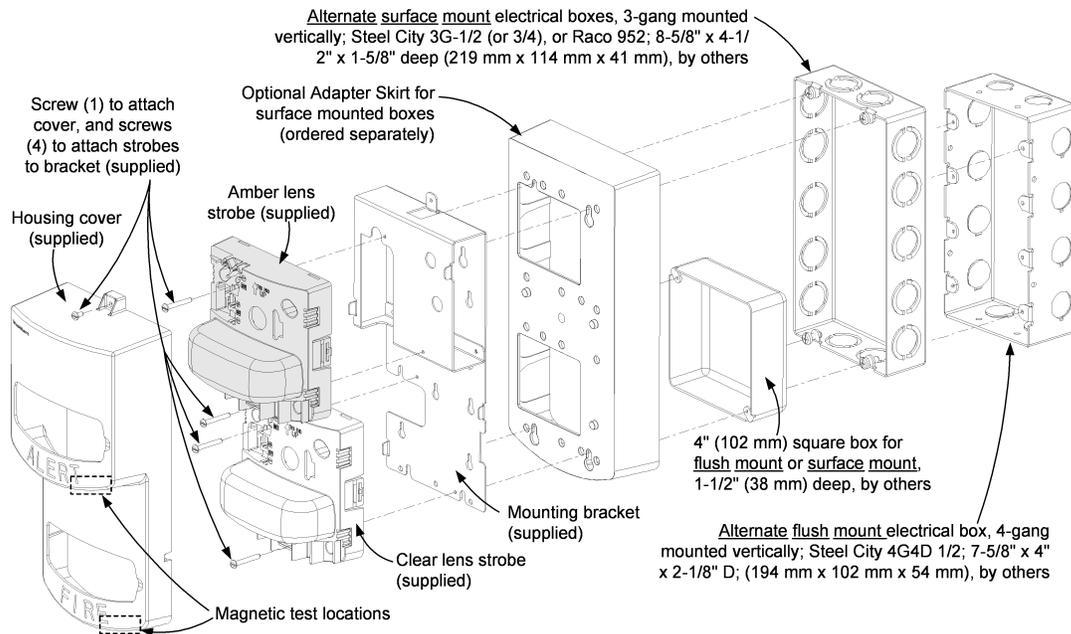


Fig 2: Strobe Details and Mounting Height Reference

Installation Reference



Product Selection

Table 1: Product Selection

SKU	Housing Color	Description	Dimensions
A4906-9208	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 ½" W x 3 15/16" D (273 mm x 130 mm x 100 mm)
A4906-9211	White		
A4905-9837	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)
A4905-9847	White		

TrueAlert Strobe and IDNAC SLC Controller Compatibility Reference

Table 2: 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	AC4100-0100	IDNAC SLC	29 VRMS (regulated)	23 VRMS (with 6 VRMS drop)
4009 IDNAC Repeater	AC4009-0004			

Specifications

Table 3: Common 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 per terminal for in/out wiring
Installation Instruction Reference	Clear/Amber Strobes
	Adapter Skirts
	Adapter Plate

Table 4: Strobe Specifications

Specification	Rating
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 A4906-9208
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

Table 5: 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	AC4100-0031	TrueAlert Addressable SLC	15, 30, 75, and 110 cd	17 VRMS
4009 TPS, Remote TrueAlert Power Supply	AC4100-0037			
TrueAlert Addressable Controller (4009T)	AC4009-0003			

Table 6: Electrical Ratings Difference for Retrofit Applications

Specification	Rating			
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

