Features

Individually addressed and controlled multi-candela V/O (visible only) 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 providing regulated 29 VDC allowing strobes to operate with lower current even under battery backup
- 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
- Compatibility with legacy TrueAlert addressable systems for upgrade and replacement
- UL listed to Standard 1971 and ULC-S526*

LED indicator and magnet test feature:

- 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 ceiling mount thermoplastic housings are available in red or white
- Rear of housing does not extend into 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 Autocall fire alarm control panel providing **IDNAC** Signaling Line Circuits (SLCs).

Strobe Application Reference

Proper selection of visible notification is dependent on occupancy, location, local codes, and proper applications of: the *National Fire Alarm and Signaling 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 addressable appliances on IDNAC SLCs provide separate visible (and audible) 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.
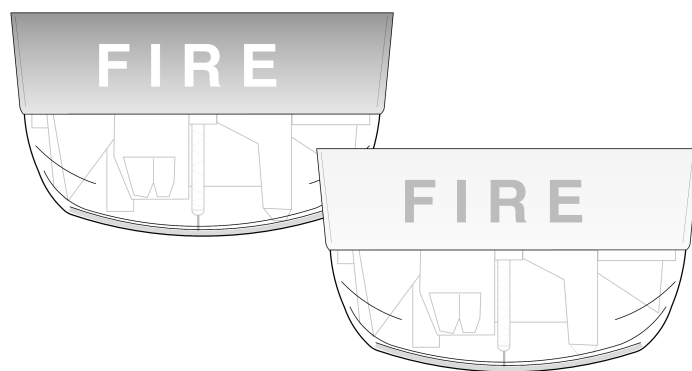

Fig 1: Ceiling Mount Addressable V/Os

Reduced current allows efficient IDNAC SLC operation. With *IDNAC SLCs*, a *constant* 29 VDC 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.

TrueAlert Addressable Wiring Isolator

Isolator Model 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 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.
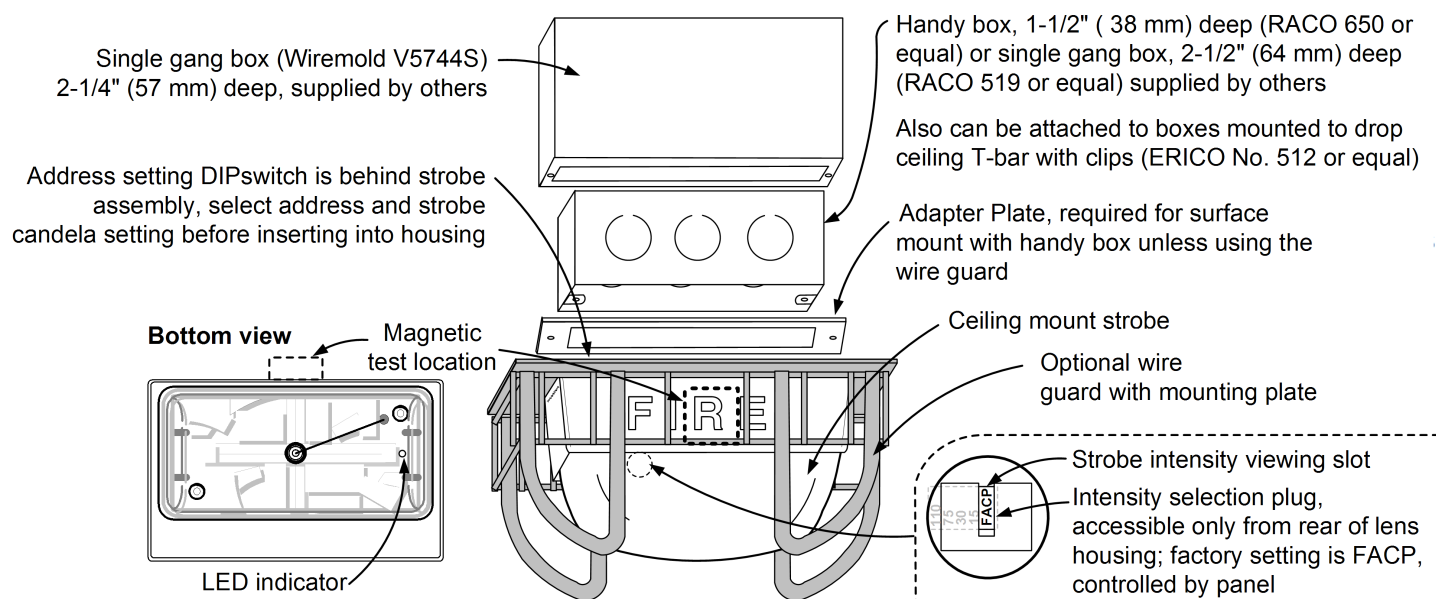
Product Selection

Table 1: Multi-Candela Ceiling Mount Addressable Strobe

SKU	Housing Color	"FIRE" Lettering	Dimensions	Description
A4906-9202	Red	White	4 ¾" x 2 5⁄16" x 2 ⅝" D (121 mm x 75 mm x 67 mm)	Multi-Candela Addressable Strobe; intensity selectable as: 15, 30, 75, or 110 candela
A4906-9204	White	Red		

Table 2: V/O Adapters

SKU	Description	Dimensions
4905-9910	Ceiling Mount, Surface Mount Adapter Plate, zinc plated; required for ceiling surface mount	4 ⅞" x 3 ⅛" (124 mm x 79 mm)

Ceiling Mount V/O and Guard Installation Reference

Single gang box (Wiremold V5744S) 2-1/4" (57 mm) deep, supplied by others

Address setting DIPswitch is behind strobe assembly, select address and strobe candela setting before inserting into housing

Bottom view

Magnetic test location

LED indicator

Handy box, 1-1/2" (38 mm) deep (RACO 650 or equal) or single gang box, 2-1/2" (64 mm) deep (RACO 519 or equal) supplied by others

Also can be attached to boxes mounted to drop ceiling T-bar with clips (ERICO No. 512 or equal)

Adapter Plate, required for surface mount with handy box unless using the wire guard

Ceiling mount strobe

Optional wire guard with mounting plate

Strobe intensity viewing slot

Intensity selection plug, accessible only from rear of lens housing; factory setting is FACP, controlled by panel

IDNAC SLC Controller Compatibility Reference

Table 3: Compatibility Reference

Compatible Controllers	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 VDC (regulated)	23 VDC (with 6 VDC drop)
4009 IDNAC Repeater	AC4009-0004			
4007ES with IDNAC Notification	AC4007-0002			
4010ES with ESS Enhanced System Supply	AC4010-0011			

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 per terminal for in/out wiring
Installation Instructions	579-808AC

Table 5: 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 per NAC			
Candela Setting	15 cd	30 cd	75 cd	110 cd
23 VDC RMS Current Ratings, for connection to IDNAC Addressable SLCs	60 mA	92 mA	180 mA	240 mA

TrueAlert Strobe LEGACY Compatibility Reference

Table 6: TrueAlert Strobe LEGACY Compatibility Reference

Compatible Controller	Data Sheet Reference	Controller Output	Available Strobe Intensity	Appliance Voltage Minimum
4100ES with TrueAlert Power Supply	AC4100-0031	TrueAlert Addressable SLC	15, 30, 75, and 110 cd	17 VDC
4009 TPS, Remote TrueAlert Power Supply	AC4100-0037			
TrueAlert Addressable Controller (4009T)	AC4009-0003			

Table 7: 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 per above	76 mA	128 mA	242 mA	328 mA