Simplex

UL, Listed*



Visible Notification Appliances, Wall Mount Multi-Candela Strobe, Chinese/English

Features

Individually addressed and controlled multi-candela TrueAlert ES 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, 110, 135, or 185 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 appliance allowing "T-tapped" connections for Class B circuits to simplify wiring (Class A circuits require in/out wiring)
- Self-Test Mode allows an on-board sensor to detect the strobe output and then report its status to the control panel
- *TrueAlert Device Reports* at the control panel detailing appliance point ID, custom label, type, and candela setting (see sample on page 3)
- Magnet Test diagnostics to assist checkout and testing of appliances and wiring and Electrical test point access without removing cover
- 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)
- Listed to UL Standard 1971

LED Indicator and Magnet Test feature:

- Appliance LED can be selected to display each polling cycle to indicate appliance supervision
- When the controller is in diagnostic mode, the Magnet Test pulses the LED to indicate appliance address and can be set to also briefly flash the strobe

Mechanical design features include:

- Rugged, high impact, flame retardant thermoplastic housing in white with red letters, with clear lens and Chinese/English lettering
- Cover can be easily removed without disturbing the connected housing and avoiding trouble conditions
- A separate mounting plate allows wiring to be completed before appliance is mounted; use with single gang, double gang, or 4-inch square box, flush or surface mount
- In/out wiring terminals for 18 AWG to 12 AWG
- Optional mounting adapters are available to cover surface mounted electrical boxes and to adapt to Simplex 2975-9145 boxes
- Optional red wire guards (see page 2 for details)



TrueAlert ES Addressable Strobe, White with Red Lettering

Description

TrueAlert ES addressable strobes are individually addressed visible notification appliances that receive power, supervision, and control signals from a Simplex fire alarm control panel providing **IDNAC** Signaling Line Circuits (SLCs). (See compatibility list on page 4.)

Strobe Application Reference

Proper selection of visible notification is dependent on occupancy, location, local codes, and proper applications of: 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).

TrueAlert ES Operation Advantage

TrueAlert ES 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.

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.

^{*} 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 Fire Protection Products.

TrueAlert ES Operation Advantage (Cont'd)

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 Self-Test and Magnet Test features improves installation efficiency. TrueAlert device reports conveniently identify information about each connected appliance.

TrueAlert ES Diagnostics

Test Features. When IDNAC SLCs are in diagnostic mode, *Self-Test* and *Magnet Test* features provide individual appliance testing. With the *Self-Test* feature, *appliance operation can be confirmed without leaving the control panel*. Additionally, each appliance's LED can be selected to pulse when it receives a supervision poll during normal operation.

Self-Test Details. Selecting Self-Test Mode from the control panel allows on-board sensors, depending on the device type, to detect its own strobe and/or horn output and then report their status to the control panel.

TrueAlert ES Diagnostics (Continued)

Self-Test Details (Continued). Operation is by selected VNAC appliance groups and is either automatic (all briefly simultaneously activated) or individually activated by applying a magnet. (Refer to control panel data sheet for more Self-Test information, see list on page 4.)

Silent Appliance Magnet Test. In this test mode, in response to application of a magnet, the appliance LED pulses sequentially to conveniently indicate the appliance's address.

Operational Appliance Magnet Test. 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 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. (See data sheet S4905-0001.)

Product Selection

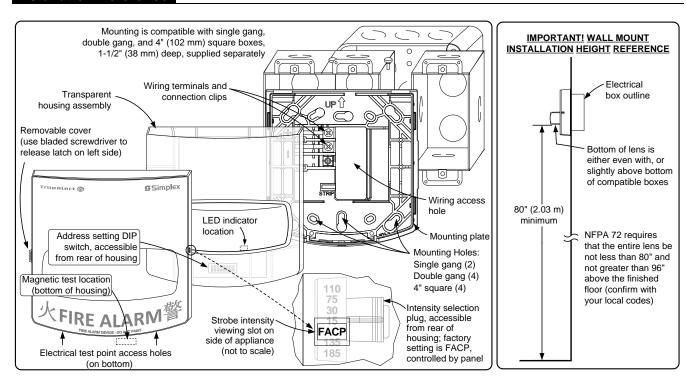
TrueAlert ES Wall Mount Addressable Strobe

Model	Description					
49VO-APPLW	TrueAlert ES addressable VO (strobe) appliance housing, select cover and mounting plate separately; Dimensions with Cover = 5 1/8" H x 5" W x 2 1/8" D (130 mm x 127 mm x 67 mm)					
Separate Mounting Plate (Required)						
Model	Model Description					
49MP-AVVOWW	White mounting Plate					
Separate Cover (Required)						
Model	Color	Wording				
49VOC-WWC	White	/hite 火FIRE ALARM 警				
Mounting Adapte	Mounting Adapters and Wire Guard					
Model	Color	Description	Dimensions			
4905-9940	White	Surface Mount Adapter Skirt	5 %" H x 5 ¼" W x 1 5%" D (136 mm x 133 mm x 41 mm) Total depth with strobe = 4 %" (111 mm)			
4905-9961	Red wire guard with mounting plate, compatible with semi-flush or surface mount boxes		6 ½ ₁₆ " H x 6 ½ ₁₆ " W x 3 ½" D (154 mm x 154 mm x 79 mm)			

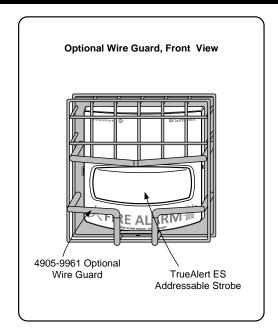
TrueAlert Device Reports Reference

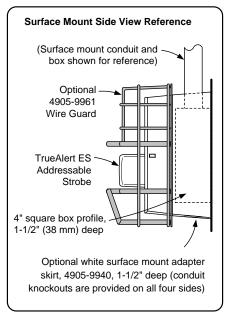
Service Port Pa						
REPORT 5 :	TrueAlert Device Report		12:34:56am	TUE	27-Jan-15	
		DEVICE				
POINT ID	CUSTOM LABEL	TYPE	CANDELA			
T14-1-1	Location Label up to 40 characters	V/O	15			
T14-1-2	Break Room 5	A/V	110			
T14-1-3	Boiler Room	A/V	75			
T14-1-4	Elec. Room 7	A/V	135			

Installation Reference



Wire Guard and Surface Mount Installation Reference





IDNAC SLC Controller Compatibility Reference

Compatible Controllers	Data Sheet Reference	Controller Output	IDNAC SLC Output Voltage	Appliance Voltage Design Reference
4100ES with EPS+ or EPS Power Supply	S4100-0100		29 VDC (regulated)	23 VDC (with 6 VDC drop)
4009 IDNAC Repeater	S4009-0004	IDNAC SLC		
4007ES with IDNAC Notification	S4007-0002			
4010ES with ESS Enhanced System Supply	S4010-0011			

TrueAlert ES Strobe Specifications

Electrical Ratings

Electrical Ratings							
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)						
IDNAC SLC Loading	Maximum of 127 addresses per SLC, 139 unit loads						
Candela Setting	15 cd	30 cd	75 cd	110 cd	135 cd	185 cd	
23 VDC RMS Current Ratings, for typical design of IDNAC Addressable SLCs (6 VDC drop)	47 mA	57 mA	100 mA	132 mA	160 mA	208 mA	
General Specifications							
Temperature Range	32° to 122° F (0° to 50° C)						
Humidity Range	10% to 93%, non-condensing @ 104° F (40° C)						
	UTP, unshielded twisted pair recommended						
IDNAC SLC Wiring Specifications (refer to control panel installation instructions for more information)	Maximum wire length allowed with "T-Taps" for Class B wiring per SLC = 10,000 ft (3048 m)						
Tol more information)	Maximum wire length to any appliance = 4000 ft (1219 m)						
Connections	Terminal blocks on mounting plate 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 579-1031							

Notes: Refer to compatibility table above for fire alarm control panel and power supply operation type.

TrueAlert ES 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				
4009 TPS, Remote TrueAlert Power Supply	S4100-0037	TrueAlert Addressable SLC	15, 30, 75, and 110 cd	17 VDC	
TrueAlert Addressable Controller (4009T)	S4009-0003				

Electrical Ratings Reference 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	62 mA	75 mA	133 mA	178 mA	

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