S.Simplex

True*Alert* Addressable Notification Appliances

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

TrueAlert Addressable Adapter
Module Model 4905-9816

Features

Converts a single TrueAlert addressable notification address into separate 24 VDC audible and visible notification outputs:

- Power and communications are supplied by Simplex® 4100ES, 4010ES, and 4007ES fire alarm control panels equipped with power supplies that provide advanced addressable notification from **IDNAC** Signaling Line Circuits (SLCs), and from 4009 IDNAC Repeaters**

- Operation is also compatible with TrueAlert SLCs from TrueAlert Power Supplies (TPS) or TrueAlert Addressable Controllers (4009T)

- Up to two TrueAlert Addressable Adapter Modules can be connected to one IDNAC SLC

Appliance control output features:

- Operation modes are: visible and audible appliances both on; or visible appliance only – with activation determined by the control panel IDNAC SLC

- On-board circuit limits appliance inrush current and provides self-resetting overcurrent protection

- Wiring to audible and visible appliances is supervised with conventional reverse polarity operation; opens or shorts are reported to the control panel

Appliance output ratings:

- Regulated 24 DC appliance power; audible output is rated for up to 30 mA, visible output is rated for up to 180 mA

- Special Applications appliance ratings; audible output is rated for up to 50 mA, visible output is rated for up to 250 mA

Status diagnostics:

- A visible status LED can be programmed at the connected control panel to indicate polling status and can be activated per address for module testing
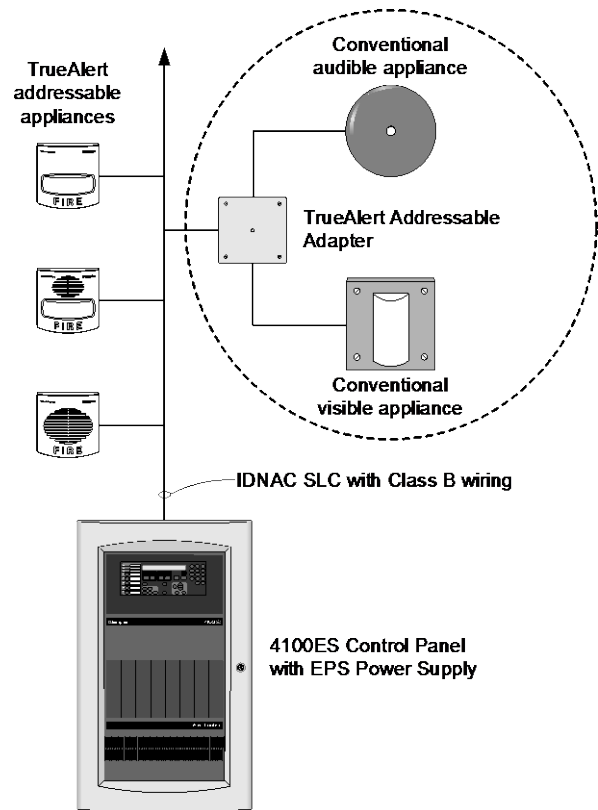
General mechanical features:

- Mounts in standard $4 \frac{11}{16}$" (119 mm) square electrical box

- Cover plates (required) are available for surface or flush mount, ordered separately

- Cover plates provide status LED viewing

- Screw terminals for wiring connections

UL listed to Standard 864

* 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 7300-0026:315 for allowable values and/or conditions concerning material presented in this document. Accepted for use – City of New York Department of Buildings – MEA35-93E. 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.

** Use of "TrueAlert" in this document refers to both TrueAlert and TrueAlert ES notification appliances. Use of IDNAC SLCs also refers to operation of TrueAlert SLCs.

TrueAlert Addressable Adapter Module,
Typical One-Line Wiring Reference

Introduction

Special Notification Requirements. IDNAC SLCs activate addressable TrueAlert horns and/or strobes in response to commands received from the IDNAC SLC. For applications where appliances other than the standard TrueAlert addressable appliances are required, the TrueAlert Addressable Adapter Module provides a separate audible and visible output individually activated by the IDNAC SLC.

Typical applications are for connection to special weather-proof appliances, appliances with particular sound output characteristics (special bells or chimes), or for connection to appliances that are required to satisfy specific aesthetic requirements.

Maintains TrueAlert Addressable System Advantages. With the TrueAlert Addressable Adapter Module, non-TrueAlert appliances can be controlled while still benefiting from the TrueAlert addressable system's active supervision to the Adapter Module, multiple diagnostic modes, and supporting of "T-tapped" Class B wiring of the IDNAC SLC connections.

For additional information refer to Installation Instructions 579-390.

Appliance Wiring Details

Compatibility with circuit protectors. When connected to remote appliances (up to 200 ft from the adapter) that exit the building and may be exposed to harsh electrical environments, the notification appliance wiring is compatible with Simplex circuit protectors. Compatible protectors are listed on page 3 and should be connected both where the wiring leaves the building and where it connects to the appliances.
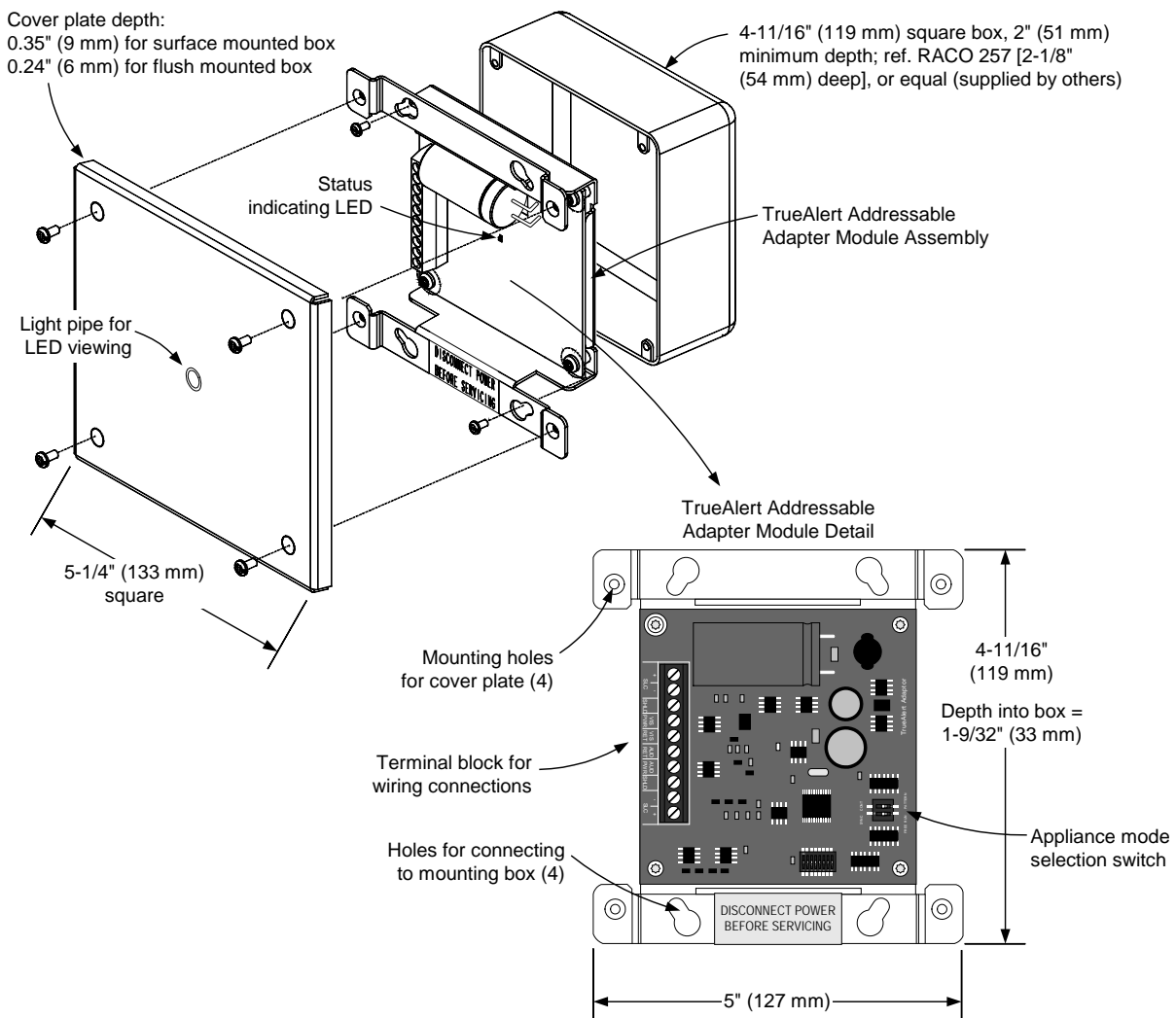
Provisions for shielded wire. For applications where notification appliance wiring may be exposed to electrical noise, twisted, shielded wiring is recommended. The adapter wiring terminal block has provisions for connecting the shield(s).

TrueAlert Addressable Adapter Product Selection

Model	Description
4905-9816	TrueAlert Addressable Adapter Module; requires surface or flush mount cover plate
4081-9008	End-of-Line Resistor Harness (ref. 733-894); 10 kΩ, ½ W; two required, one each for audible and visible output
4905-9817	Surface Mount Cover Plate
4905-9818	Flush Mount Cover Plate

Required, select one for each 4905-9816 per application; painted beige

TrueAlert Addressable Adapter Installation Reference

Cover plate depth:
0.35" (9 mm) for surface mounted box
0.24" (6 mm) for flush mounted box

4-11/16" (119 mm) square box, 2" (51 mm) minimum depth; ref. RACO 257 [2-1/8" (54 mm) deep], or equal (supplied by others)

Status indicating LED

TrueAlert Addressable Adapter Module Assembly

Light pipe for LED viewing

DISCONNECT POWER BEFORE SERVICING

5-1/4" (133 mm) square

TrueAlert Addressable Adapter Module Detail

Mounting holes for cover plate (4)

Terminal block for wiring connections

Holes for connecting to mounting box (4)

DISCONNECT POWER BEFORE SERVICING

4-11/16" (119 mm)

Depth into box = 1-9/32" (33 mm)

Appliance mode selection switch

5" (127 mm)

Specifications

Electrical and Operation Reference

Input Voltage	IDNAC SLCs	23 to 31 VDC	Communications and power are supplied from the SLC
	Legacy TrueAlert SLCs	17 to 31 VDC	
Input Current	Supervisory	1 unit load (1 unit load = 0.8 mA control panel current)	
	Alarm	450 mA maximum, adapter and appliances	
TrueAlert Address Requirements		1 Address per Adapter Module; limited to two Adapter Modules per SLC	
Output Voltage		17.8 to 32 VDC; appliance inrush current is internally limited to 550 mA	
Output NAC Current Ratings	Regulated 24 DC Appliance Power Ratings	Audible Output = 30 mA	
		Visible Output = 180 mA	
	Special Application Appliance Ratings	Audible Output = 50 mA	
		Visible Output = 250 mA	
Visible Output Mode Control		Select for free-run or for Simplex strobe synch pulses synchronized to the SLC	
Audible Output Mode Control		Select for continuous on or to follow same pattern as the SLC; select continuous if appliance has its own pattern selection or if it has high repetitive inrush current	
Compatibility with Regulated 24 DC Appliances		Power for appliances listed to UL Standard 1971 or UL Standard 464; use associated external synchronization modules where required	
Compatibility with Special Application Simplex Appliances	Audible Output	Compatible with Simplex horns and with the horn of 4-wire horn/strobes (A/V) capable of free-run (not SmartSync) operation	
	Visible Output	Compatible with Simplex strobes and with the strobes of 4-wire horn/strobes (A/V) and 4-wire speaker/strobes (S/V); select output as sync mode (Note: Speaker circuits require separate wiring)	

IDNAC SLC Channel Loading Reference

TrueAlert Addressable Adapter Modules per SLC	Two maximum
SLC addresses	127 maximum
SLC unit loading	139 maximum
Synchronized SLC Strobe Loading	Up to 63 addressable synchronized strobes maximum per IDNAC SLC
	Up to 46 addressable synchronized strobes maximum per TrueAlert SLC, refer to individual appliance and control panel information for additional information
SLC Current Rating Reference	EPS+/ EPS Power Supply and 4009 IDNAC Repeater = 3 A maximum
	TrueAlert Power Supply = 3 A maximum
	TrueAlert Addressable Controller = 2.5 A maximum

Wiring Reference

Appliance Distance from TrueAlert Addressable Adapter	200 ft maximum (61 m)
Supervision Resistor	10 kΩ, ½ W; two required, one located at each remote appliance; use 4081-9008 End-of-Line Resistor Harness (ref. 733-894), ordered separately
Wiring Connections	Screw terminals for 18 to 12 AWG (0.82 mm^2 to 3.31 mm^2)
Compatible Circuit Protection (required when wiring leaves the building for outdoor appliances, mount one at each end of wiring)	2081-9044, Overvoltage Protector, 200 mA maximum
	2081-9028, Isolated Loop Circuit Protector, 5 A maximum
	2081-9027, Isolated Loop Circuit Protector, 200 mA maximum
Installation Instructions	579-390

Mechanical and Environmental

Dimensions (adapter mounted in bracket, see page 2 for reference drawing)	4 $^{11}/_{16}$" ½ H x 5" W x 1 $^9/_{32}$" D (119 mm x 127 mm x 33 mm)
Mounting Plate Material	Sheet metal, galvanized
Temperature Range	32° to 120° F (0° to 49° C), adapter is intended to be mounted indoors
Humidity Range	10% to 90% RH non-condensing at 90° F (32° C)

Panel Data Sheet Reference

4100ES with EPS	S4100-0100
4010ES with ESS	S4010-0011
4007ES with IDNAC SLCs	S4007-0002
4009 IDNAC Repeater	S4009-0004

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