

## 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)
- You can connect up to two TrueAlert Addressable Adapter Modules 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:

- You can program a visible status LED at the connected control panel to indicate polling status and can be activated for each address for module testing

### General mechanical features:

- Mounts in standard 4 11/16 in. (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

## Introduction

**Special Notification Requirements.** IDNAC SLCs activate addressable TrueAlert horns 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, you can control non-TrueAlert appliances, 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 *4905-9816 4906 TrueAlert Adapter Installation Instructions 579-390*.

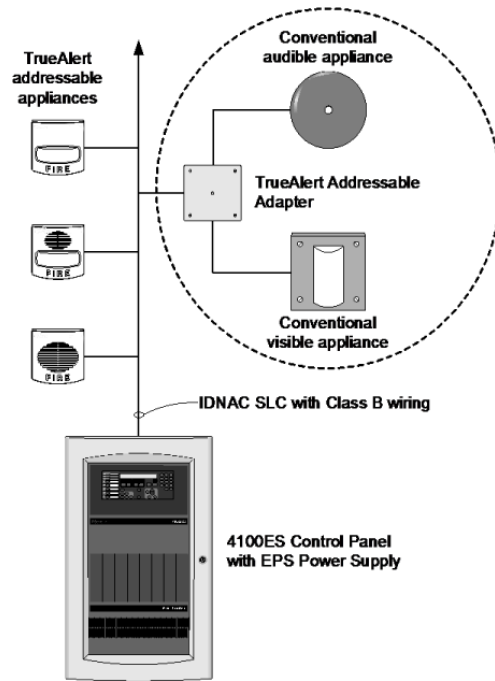


Figure 1: TrueAlert Addressable Adapter Module, Typical One-Line Wiring Reference

## 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 in [Specifications](#). Connect 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 shields.

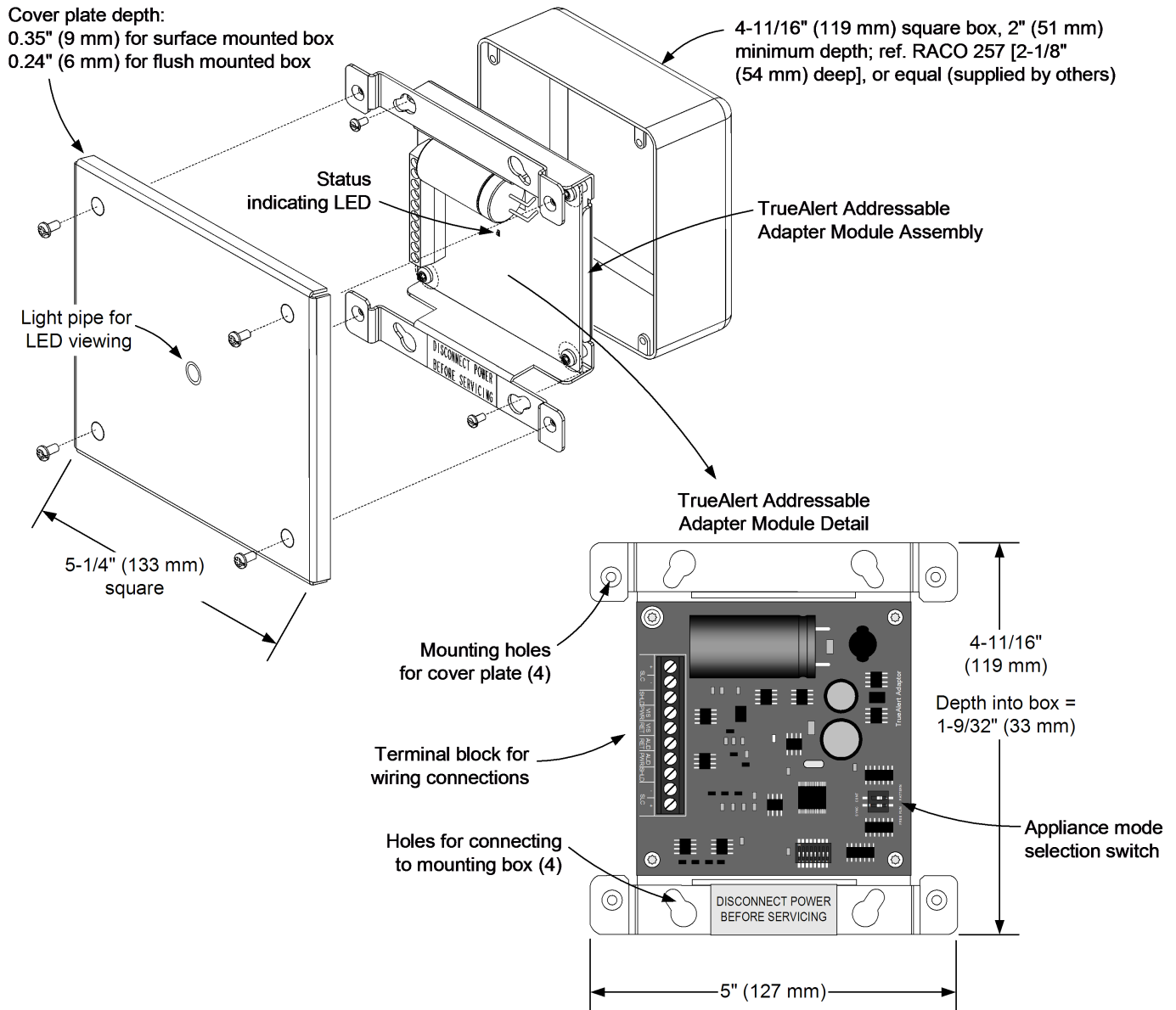
**TrueAlert Addressable Adapter Product Selection**

**Table 1: Product Selection**

SKU	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, 1/2 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 for each application; painted beige

**TrueAlert Addressable Adapter Installation Reference**



**Figure 2: TrueAlert Addressable Adapter Installation Reference**

## Specifications

**Table 2: Electrical and Operation Reference**

Specification	Rating	
<b>Input Voltage</b>		
IDNAC SLCs	23-31VDC	Communications and power are supplied from the SLC
Legacy TrueAlert SLCs	17-31 VDC	
<b>Input Current</b>		
Supervisory	1 unit load (1 unit load = 0.8 mA control panel current)	
Alarm	450 mA maximum, adapter and appliances	
TrueAlert Requirements	1 Address for each Adapter Module; limited to two Adapter Modules for each SLC	
Output Voltage	17.8 TO 32 VDC; appliance inrush current is internally limited to 550mA	
Output NAC Current Ratings	Regulated 24 DC	Audible Output= 30 mA
	Appliance Power Ratings	Visible Output = 180mA
	Special Application Appliance Ratings	Audible Output = 50mA Visible Output= 250mA
Visible Output Mode Control	Select free-run for Simplex strobe synch pulses synchronised 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 Special Application Simplex	Audible Output	Compatible with Simplex horns and with the horn of 4-wire horn/strobes (A/V) and 4-wire speakers/strobes (S/V); select output as sync mode. <b>Note:</b> Speaker circuits require separate wiring.
	Visible Output	Compatible with Simplex strobes and with the strobes of 4-wire horn/strobes (A/V) and 4-wire speakers/strobes (S/V); select output as sync mode. <b>Note:</b> Speaker circuits require separate wiring.

**Table 3: IDNAC SLC Channel Loading Reference**

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

**Table 4: Wiring Reference**

Specification	Rating
Appliance Distance from TrueAlert Addressable Adapter	200 ft maximum (61 m)
Supervision Resistor	10 kΩ, 1/2 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 <sup>2</sup> to 3.31 mm <sup>2</sup> )
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

**Table 5: Mechanical and Environmental**

Specification	Rating
Dimensions	4 11/16 in. H x 5 in. W x 1 9/32 in. D (119 mm x 127 mm x 33 mm)
Adapter mounted in bracket, see Figure 2	
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)

**Table 6: Panel Data Sheet Reference**

<b>Specification</b>	<b>Rating</b>
<b>4100ES with EPS</b>	<i>S4100-0100</i>
<b>4010ES with ESS</b>	<i>S4010-0011</i>
<b>4007ES with IDNAC SLCs</b>	<i>S4007-0002</i>
<b>4009 IDNAC Repeater</b>	<i>S4009-0004</i>