



Features

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

- Power and communications are supplied by the TrueAlert Addressable Signaling Line Circuit (SLC)
- Operation is compatible with TrueAlert Addressable Controllers, 4100ES and 4100U internally mounted TrueAlert Addressable Power Supplies, and 4009 TPS Remote TrueAlert Addressable Power Supplies
- Up to two TrueAlert Addressable Adapter Modules can be connected to one TrueAlert SLC
- For information on the TrueAlert Addressable Controller and general system reference, refer to data sheet S4009-0003

Appliance control output features:

- Operation modes are: visible and audible appliances both on; or visible appliance only – with activation determined by the connected TrueAlert addressable control
- 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 TrueAlert addressable 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:

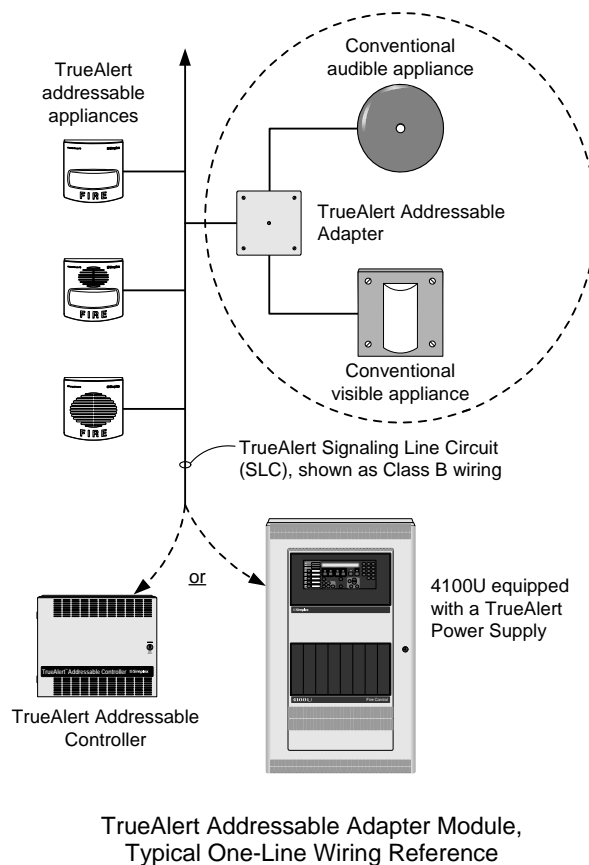
- A visible status LED can be programmed at the connected control panel to indicate polling status and can be activated per address for module testing

General mechanical features:

- Mounts in standard 4 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

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Introduction

Special Notification Requirements. Standard TrueAlert addressable notification appliances activate horns and/or strobes in response to commands received from the TrueAlert addressable control source. 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 TrueAlert addressable control source.

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 TrueAlert 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.

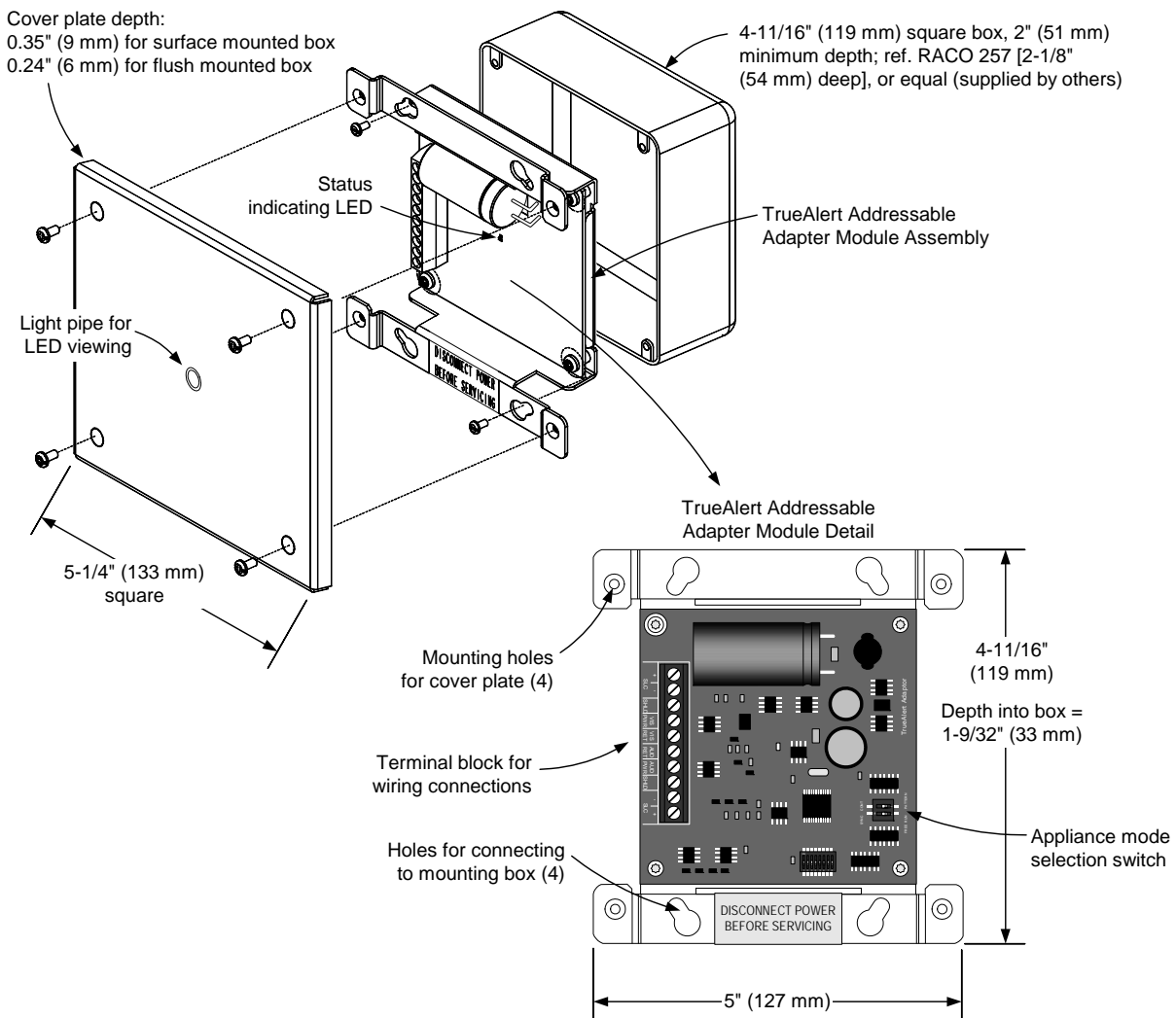
Provisions for shielded wire. For applications where notification appliance wiring may be exposed to electrical noise, twisted, shielded wiring is recommended. The adapter wiring terminal block has provisions for connecting the shield(s).

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 k Ω , 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 per application; painted beige

TrueAlert Addressable Adapter Installation Reference



Specifications

Electrical and Operation Reference

Input Voltage		17 to 33 VRMS, communications and power are supplied from the TrueAlert SLC; see notes 1 and 2 below
Input Current	Supervisory	One unit load
	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)

TrueAlert SLC Channel Loading Reference

TrueAlert Addressable Adapter Modules per SLC	Two maximum
SLC addresses	63 maximum
SLC unit loading	75 maximum
Synchronized SLC Strobe Loading	Up to 43 TrueAlert addressable synchronized strobes maximum per SLC
SLC Current Rating Reference	TrueAlert Addressable Controller = 2.5 A maximum
	TrueAlert Power Supply = 3 A maximum

Wiring Reference

Appliance Distance from TrueAlert Addressable Adapter	200 ft maximum (61 m)
Supervision Resistor	10 k Ω , 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

Mechanical and Environmental

Dimensions (adapter mounted in bracket, see page 2 for reference drawing)	4 1 ¹ / ₁₆ " ½ H x 5" W x 1 9 ³ / 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)

NOTES:

1. The TrueAlert Addressable Adapter is required to be connected to a TrueAlert addressable channel where both power and communications are supplied. Refer to TrueAlert Addressable Controller data sheet S4009-0003 for additional information about wiring rules and distance limitations.
2. The rated voltage range listed is the absolute operating range. Operation outside of this range may cause permanent damage to the TrueAlert Addressable Adapter. Please note that 17 VRMS is the lowest operating voltage that is allowed at the last appliance on the TrueAlert signaling line circuit under worst case conditions. Voltage drops and standby battery calculations should be made using anticipated operating conditions.

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