

Features**Converts a SmartSync NAC into separate 24 VDC audible and visible appliance outputs:**

- Power and communications are supplied by the SmartSync operation NAC
- Up to two SmartSync Adapter Modules can be connected to a SmartSync NAC

Operation is compatible with SmartSync control from the following Simplex® control panels:

- Fire alarm control panels directly providing SmartSync two-wire horn/strobe control
- Model 4010 fire alarm control panels and 4009 IDNet™ NAC Extenders using the 4905-9938 SmartSync Control Module for Class A SmartSync operation

Appliance control output features:

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

Status diagnostics:

- A visible status LED will light if a wiring fault is detected by either of the on-board output notification appliance supervision circuits

Appliance output ratings:

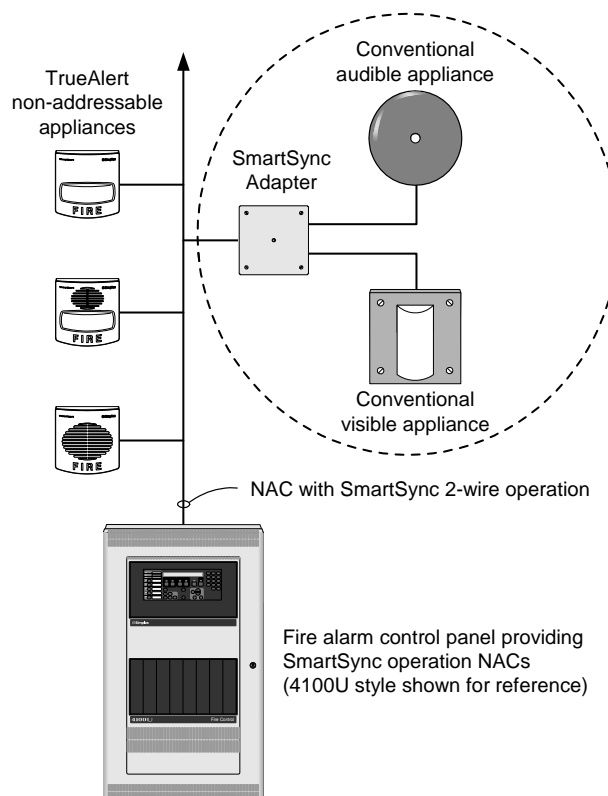
- Regulated 24 DC appliance power; audible output is rated for up to 30 mA, visible output is rated for up to 180 mA
- Special Applications appliance ratings; audible output is rated for up to 50 mA, visible output is rated for up to 250 mA

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
- Covers 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. It is subject to re-examination, revision, and possible cancellation. 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 Safety Products Westminster.



SmartSync Adapter Module,
Typical One-Line Wiring Reference

Introduction

Special Notification Requirements. Standard SmartSync operation notification appliances activate horns and/or strobes in response to commands received from the SmartSync operation control source using a two-wire connection. For applications where appliances other than the standard SmartSync appliances are required, the SmartSync Adapter Module provides a separate audible and visible output controlled by the SmartSync operation 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 SmartSync operation System Advantages. With the SmartSync Adapter Module, non-SmartSync appliances can be controlled while still benefiting from the SmartSync operation ability to provide separate audible and visible control using a two-wire connection (U.S. Patent No. 6,281,789).

For additional information refer to Installation Instructions 579-391.

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.

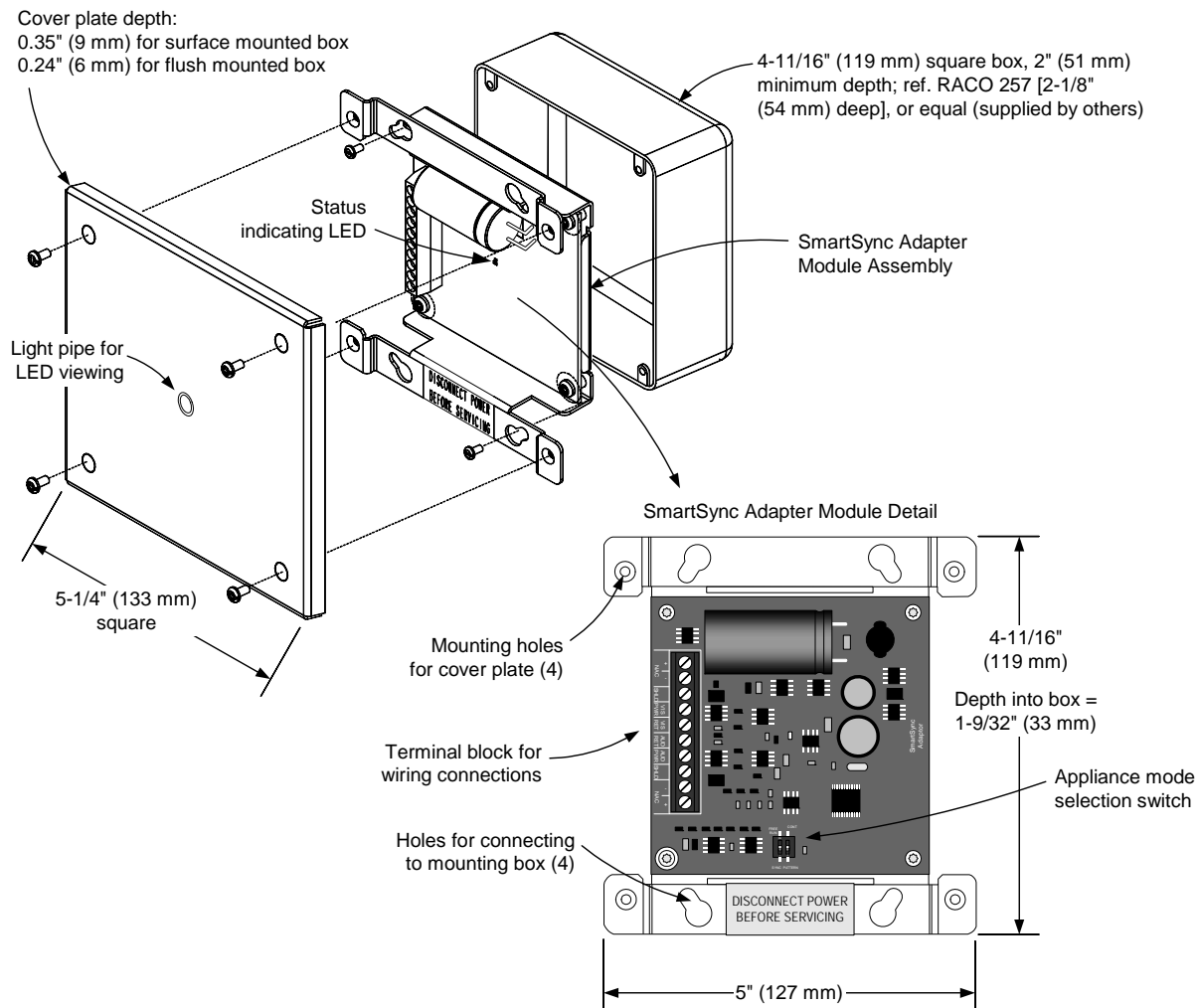
Provisions for shielded wire. For applications where notification appliance wiring may be exposed to electrical noise, twisted, shielded wiring is recommended. The adapter wiring terminal block has provisions for connecting the shield(s).

TrueAlert Adapter Product Selection

Model	Description
4905-9815	SmartSync 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

Select one for each 4905-9815; painted beige

TrueAlert Adapter Installation Reference



Specifications

Electrical

Input Voltage		16 to 33 VDC; see notes 1 and 2 below
Input Current	Supervisory	100 µA maximum
	Alarm	450 mA maximum, adapter and appliances
Output Voltage		17 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
Regulated 24 DC Appliances		Power for appliances listed to UL Standard 1971 or UL Standard 464; use associated external synchronization modules where required
Special Application Appliances		Simplex conventional (non-addressable) 4901, 4903, 4904, and 4906 Series horns, strobes, and combination horn/strobes and speaker/strobes (contact your Simplex product representative for compatible appliances)

Wiring Reference

Appliance Distance from SmartSync Adapter	200 ft maximum (61 m)
Supervision Resistor	10 k Ω , 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 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)	4-11/16" 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) intended for indoor operation
Humidity Range	10% to 90% RH non-condensing at 90° F (32° C)

NOTES:

1. The SmartSync adapter is required to be connected to a NAC that provides SmartSync two-wire operation.
2. The rated voltage range listed is the absolute operating range. Operation outside of this range may cause permanent damage to the SmartSync adapter.

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