![Simplex logo]

Datasheet
TrueAlert Notification Appliances
SmartSync Adapter Module for Non-Addressable Notification Appliance Circuits (NACs)
Model 4905-9815

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

Features

Converts the Simplex SmartSync NAC (notification appliance circuit) into separate 24 VDC audible and visible appliance outputs:

· Power and communications are supplied by the SmartSync operation NAC
· You can connect up to two SmartSync Adapter Modules to a SmartSync NAC
· Operation is compatible with SmartSync control from Simplex fire alarm control panels and from 4009 IDNet NAC Extenders
· 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 lights 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 in. (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

Introduction

Special Notification Requirements. Standard SmartSync operation notification appliances activate horns 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, you can control non-SmartSync appliances while still benefiting from the SmartSync operation ability to provide separate audible and visible control using a two-wire connection.

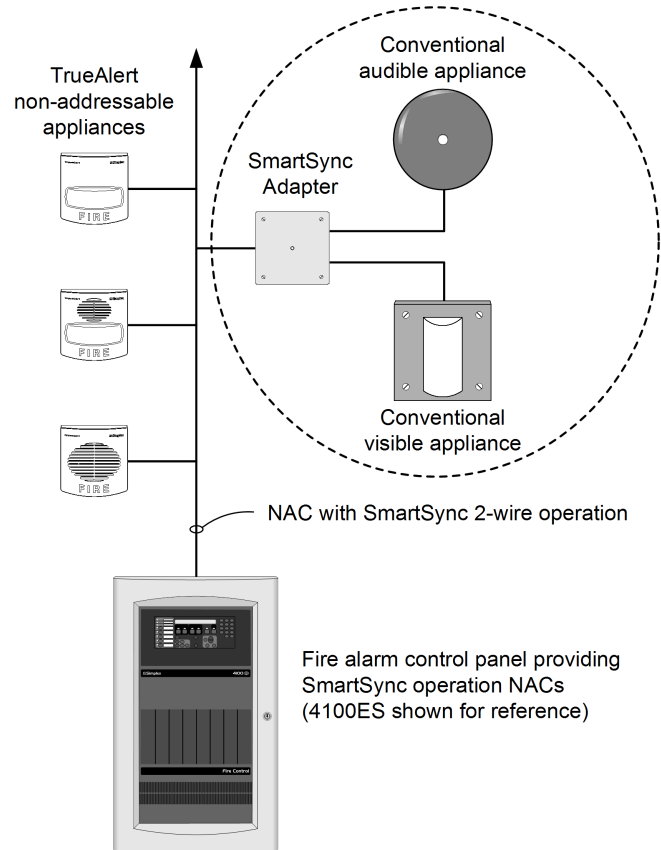For additional information refer to *4905-9815 SmartSync Adapter Installation Instructions 579-391.*

Figure 1: SmartSync 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.
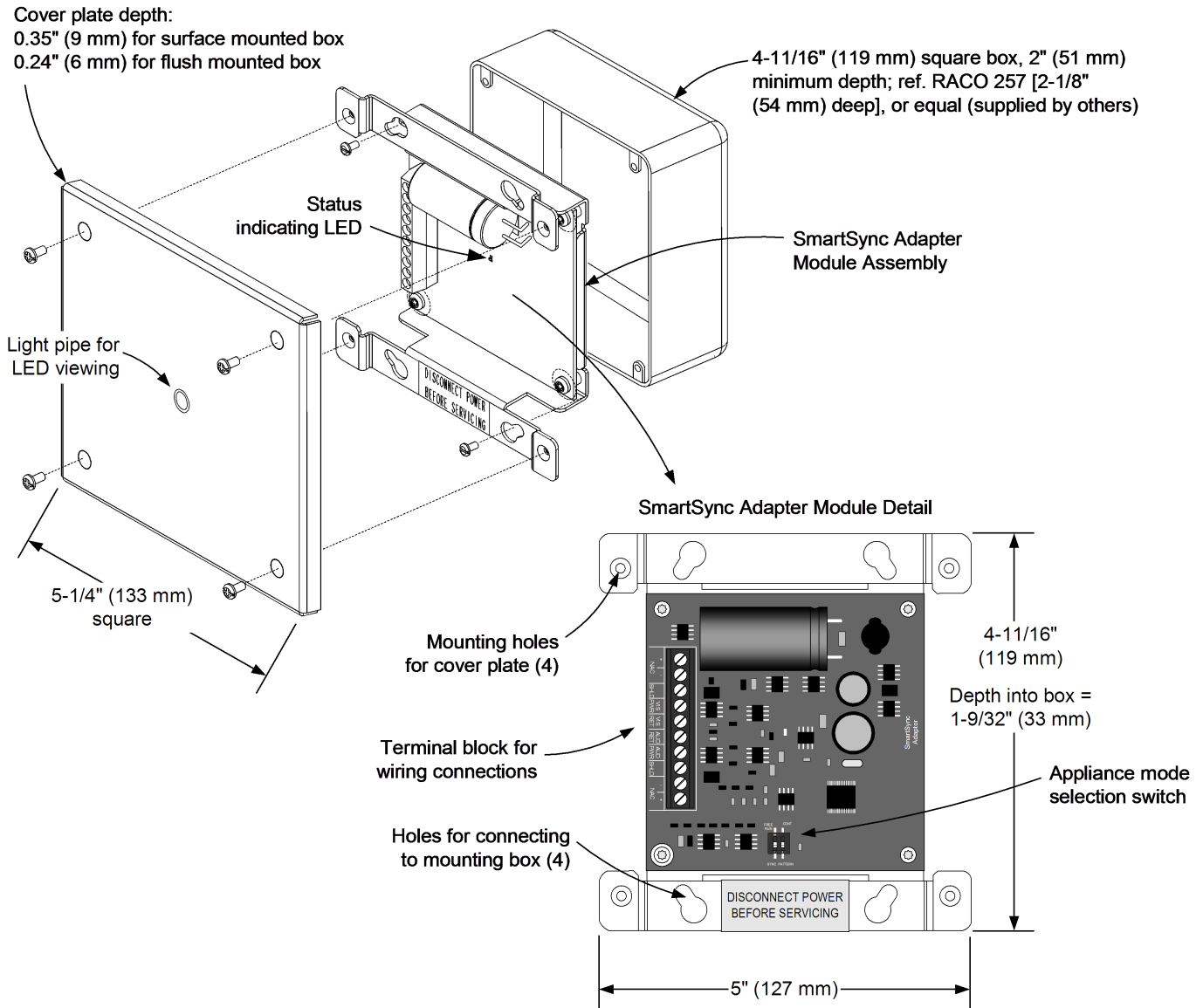
Provisions for shielded wire. For applications where notification appliance wiring may be exposed to electrical noise, twisted, shielded wiring is recommended. The adapter wiring terminal block has provisions for connecting the shields.

TrueAlert Adapter Product Selection

Table 1: TrueAlert Adapter Product Selection

SKU	Description
4905-9815	SmartSync 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 — Select one for each 4905-9815; painted beige
4905-9818	Flush Mount Cover Plate

TrueAlert 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

SmartSync Adapter Module Assembly

Light pipe for LED viewing

DISCONNECT POWER BEFORE SERVICING

5-1/4" (133 mm) square

SmartSync 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)

Figure 2: TrueAlert Adapter Installation Reference

Specifications

Table 2: 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)

Table 3: Wiring Reference

Appliance Distance from SmartSync 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^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

Table 4: Mechanical and Environmental

Dimensions (adapter mounted in bracket, see **TrueAlert Adapter Installation Reference**)	4 11/16 in. H x 5 in. W x 1 9/32 in. 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)

Note:

1. You must connect the SmartSync adapter 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.