

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

## TrueAlert Addressable Notification Reference

TrueAlert Addressable Operation Reference and 4009 Series TrueAlert Addressable Controller

### Use for installed system expansion applications:

- See TrueAlert addressable controller and 4100ES TPS reference specifications for appliance compatibility details.
- For new addressable notification fire alarm control panel applications, refer to data sheet S4100-0100

### TrueAlert addressable operation features

# Each individually addressed notification appliance receives power and control over a single wire pair providing:

- Supervised wiring connections to each appliance that support Ttapped wiring for Class B circuits. Class A circuits require in/out wiring.
- Horns sounding with selectable high or low output, as Temporal 3 or March Time pattern, 60 bpm or 120 bpm, or Steady On, controlled separately from visible appliances on the same two-wire circuit.
- · Visible appliances operating synchronized at 1 Hz.
- Control over power limited, isolated output signaling line circuits (SLCs) with up to 63 addressable appliances for each SLC, and up to 189 appliances for each control source. For detailed SLC ratings see TrueAlert addressable controller and 4100ES TPS reference specifications.
- Control sources selectable to provide individual appliance magnetic test mode and appliance LED polling indicator.
- 4100ES, 4100U and 4010ES systems also provide additional control capabilities using virtual NAC (VNAC) appliance groupings across SLCs and across control sources.

#### Class B, T-tapped wiring advantages:

- Less wiring distance is required as traditional end-of-line Class B wiring supervision is not needed.
- With less wiring distance required, voltage drops are reduced, enabling more appliances for each wire run.

#### **UL listed to Standard 864**

### 4100ES TrueAlert Power Supplies (TPS)

### For mounting in 4100ES or 4100U control panels:

Three 3 A, SLCs, special application rating.

### TrueAlert Addressable Controllers

### Remote mounted control panel that provides:

- · Three 2.5 A, SLCs, special application rating.
- An 8 A power supply with battery charging for internal batteries up to 12.7 Ah or up to 18 Ah in an external cabinet.

### Multiple communications formats are available:

- Remote unit interface (RUI) communications from SimplexTM 4100ES/4010ES/4100U/4120/4100/4020 fire alarm control panels assigns an address point with custom label to each appliance for individual trouble reporting. 4100U/4120/4100/4020 require Rev. 9 or higher software.
- IDNet communications from Simplex 4010 Classic fire alarm control panels provide individual or multiple channel control using a single IDNet address.
- Wired control from conventional NACs connects with multiple options.

#### **Extensive internal diagnostics include:**

- · LED status indicators that identify the channel and the trouble.
- Support for host fire alarm control panel WALKTEST system test with IDNet or RUI communications.
- · Status monitoring of battery, input power, and earth faults.

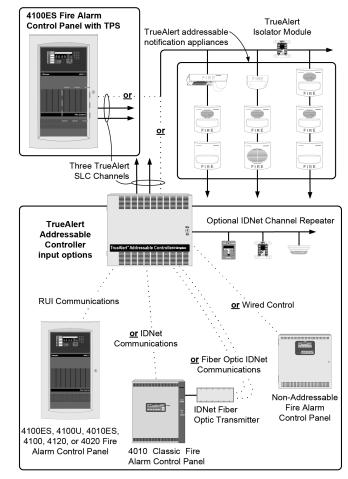


Figure 1: TrueAlert Addressable Operation reference diagram

### **Optional internal modules:**

- · Class A Three Channel Adapter Module
- IDNet Communications: Repeater or Fiber Optic Receiver / Repeater. Models for Class A or Class B.

#### **External accessories:**

- IDNet communication fiber optic transmitters
- Remote TrueAlert communications isolator 4905-9929, for details refer to data sheet \$4905-0001.
- External battery cabinet for 18 Ah batteries



#### Introduction

**TrueAlert addressable notification appliances** are individually addressed and receive power, supervision, and control from a TrueAlert signaling line circuit (SLC). For wired control systems, strobe flashes and horn outputs are synchronized by the controller. For RUI and IDNet communications control, controllers on the same host control panel are synchronized. Combination speaker strobe TrueAlert appliances receive audible control from separate audio circuit wiring.

**TrueAlert addressable operation** enables strobes to be wired onto the same two-wire SLC circuit as horns but with a separately controlled operation. Typical applications are audible notification appliances activated as on-until-silenced and visible notification appliances activated as on-until-reset.

From the control panel, you can implement **TrueAlert Addressable Controller diagnostics** including Silent or Active individual appliance magnet test, appliance LED polling indication, or all appliance LEDs on.

#### RUI communications control

When used with fire alarm control panels that support RUI communications, you can connect the TrueAlert Addressable Controller to an RUI addressable communications channel also with other RUI addressable devices. The host panel can control multiple TrueAlert Addressable Controllers. The maximum is 20 for each RUI connection.

Note: The 4010ES system is limited to 20 internal and external card addresses for each panel.

For additional information, see Figure 3.

Address points and custom labels are assigned to each TrueAlert appliance enabling troubles to be reported individually. Additionally, individual device types are assigned, and audible appliance coding types are selectable for high or low output, ~5 dBA difference, and with operation as Temporal pattern, March Time pattern 60 bpm or 120 bpm, or Steady On that means continuous.

### 4100ES and 4010ES VNAC details

**Virtual NAC (VNACs) operation groupings** provide control of TrueAlert appliances similar to conventional NAC operation but VNACs include appliances across SLCs and across SLC sources within a 4100ES, or 4100U, or 4010ES controlled system. VNACs require point allocation, you can declare them public for use in a Network fire alarm system, and they can be manually controlled.

Note: The terms Virtual NAC, VNAC, and TrueAlert Zone refer to the same feature and are interchangeable.

**Custom VNACs.** For programming convenience, there are default VNAC groups according to device type. You can create up to 56 custom VNACs. Eight VNACs are system reserved for each 4100ES TPS or for each TrueAlert Addressable Controller connected to a 4100ES or 4010ES control panel. Appliances can be in up to three custom VNACs.

**Note:** Appliances assigned to multiple VNACs remain ON if any of the VNACs are ON.

You can program 4100ES, 4100U, and 4010ES fire alarm control panels for up to 247 total custom VNACs, for increased selective signaling operation.

#### TrueAlert Addressable Controller product selection

### **Table 1: Standard models**

| Model               | Listings                                  | Input voltage | Description                                     |
|---------------------|---|---------------|---|
| 4009-9401 See note. | UL, FM, CSFM, MEA (NYC)                   | 120 VAC input | TrueAlert Addressable Controller with 3 Class B |
| 4009-9402CA         | ULC (includes low battery cutout feature) |               | TrueAlert SLC channels and 8 A power supply.    |
| 4009-9501           | Not agency listed                         | 240 VAC input |   |

#### Table 2: Optional Modules for on-site installation

| Model     | Description                       |                        | Comments  |  |  |  |
|-----------|-----------------------------------|------------------------|---|--|--|--|
| 4009-9812 | Three channel Class A adapter     |                        | Select if required.   |  |  |  |
| 4009-9809 | IDNet Repeater, output is Class A | or Class B             | Select an IDNet Repeater or a fiber optic receiver as required.       |  |  |  |
| 4009-9810 | Class B                           | Fiber optic with IDNet |   |  |  |  |
| 4009-9811 | Class A (Class X input)           | repeater               |   |  |  |  |
| 4009-9805 | Red Appliqué for door             |                        | Select if required, 16-1/8 in. W x 5-1/2 in. H (410 mm x 140 mm)      |  |  |  |
| 2975-9801 | Beige trim                        | Semi-Flush Trim Kit    | 1-7/16 in. wide (78 mm), use if required for semi-flush installations |  |  |  |
| 2975-9802 | Red trim                          |                        |   |  |  |  |

### Table 3: Select external accessories by system requirements

| Model     | Description                              |                       | Comments   |  |  |
|-----------|--|-----------------------|--|--|--|
| 4090-9105 | Class B IDNet Fiber Optic Transmitter    |                       | Mounts in six-gang electrical box, see Figure 7 for mounting         |  |  |
| 4090-9107 | Class A (Class X output)                 |                       | information.   |  |  |
| 4905-9929 | Remote TrueAlert Communications Isolator |                       | Refer to data sheet S4905-0001 for details                           |  |  |
| 4009-9801 | External battery cabinet for 18          | 8 Ah batteries, beige | 16-1/4 in. W x 13-1/2 in. H x 5-3/4 in. D (413 mm x 343 mm x 146 mm) |  |  |

### Table 4: Select battery size by system requirements

| Model     | Description            |
|-----------|------------------------|
| 2081-9272 | 6.2 Ah Battery, 12 VDC |
| 2081-9274 | 10 Ah Battery, 12 VDC  |

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| Table 4: Select ba | ttery size by s | ystem requirements |
|--------------------|-----------------|--------------------|
|                    |                 |                    |

| Model     | Description  |
|-----------|--|
| 2081-9288 | 12.7 Ah Battery, 12 VDC                                      |
| 2081-9275 | 18 Ah Battery, 12 VDC. Requires an external battery cabinet. |

#### Note:

- · For 24 VDC operation, two batteries are required.
- 4009-9401 has been seismic tested and is certified to IBC and CBC standards in addition to ASCE 7 categories A through F. It requires battery brackets. See details on data sheet S2081-0019

### 4100ES or 4100U VNAC wiring reference

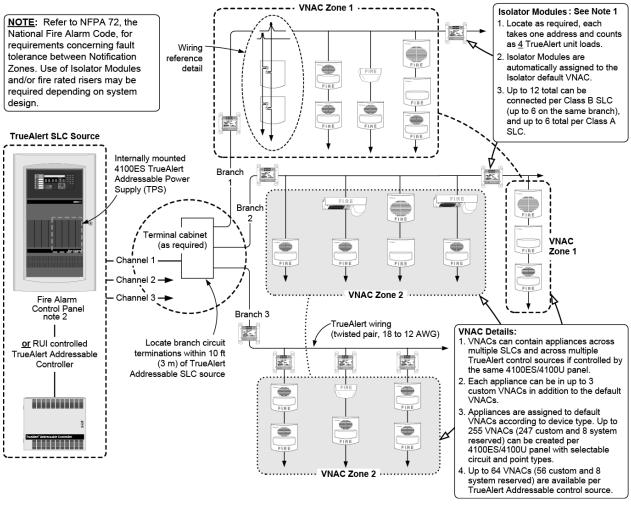


Figure 2: VNAC wiring reference diagram

### Note:

- 1. 4905-9929 Isolator Modules.
- 2. 4100ES or 4100U fire alarm control panel. The 4100ES is shown.

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# **Simplex**

## **RUI** communications wiring reference

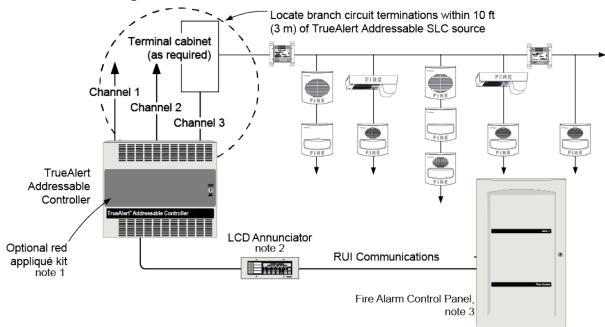


Figure 3: RUI communications wiring reference diagram

#### Note:

- 1. 4009-9805 optional red appliqué kit.
- 2. 4603-9101 LCD Annunciator.
- 3. 4100ES, 4100U, 4010ES, 4100, 4120, or 4020 fire alarm control panel. 4100ES is shown.

#### **RUI communications rules summary:**

- 1. Limit of 20 TrueAlert Addressable Controllers. The 4010ES has a maximum internal and external limit of 20 card addresses.
- 2. Can be wired with other RUI devices. An LCD Annunciator is shown for reference.
- 3. Wiring distance is up to 2500 ft (762 m) continuous wiring, and up to 10,000 ft (3048 m) when T-tapped, Class B only.
- 4. Minimum wiring is unshielded twisted pair. Some applications may require shielded twisted pair. Consult your Simplex product supplier for details.

### **IDNet communications input**

**IDNet Addressable communications compatible.** For use with the Simplex 4010 fire alarm control panel, a single IDNet communications channel can control up to five TrueAlert Addressable Controllers with each requiring only one point address. Use 4010 custom control to individually control each TrueAlert Addressable Controller SLC channel. Each TrueAlert SLC channel can provide horn control selected as Temporal pattern, March Time pattern, **60 bpm or 120 bpm**, or Steady On.

Manual control. You can manually control individual TrueAlert SLC channels from the 4010 for service operations or for manual override.

**Trouble communications**. The 4010 receives TrueAlert Addressable Controller troubles to include: device supervision, reported as a channel trouble, power trouble, battery status, and earth detect.

**Optional IDNet repeater modules.** You can repeat IDNet communications with the optional IDNet Repeater Module or with the optional Fiber Optic Receiver Module. Up to 100 of the IDNet channel points can be repeated once. See TrueAlert Addressable Controller with wired IDNet input control and TrueAlert Addressable Controller with fiber optic IDNet input control. Repeated IDNet communications also support the device level earth fault location utility of the host panel.

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# **Simplex**

## TrueAlert Addressable Controller with wired IDNet input control

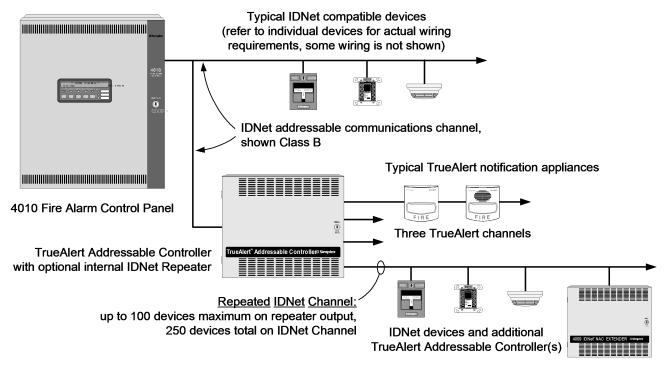


Figure 4: TrueAlert Addressable controller with Wired IDNet input control

### TrueAlert Addressable Controller with fiber optic IDNet input control

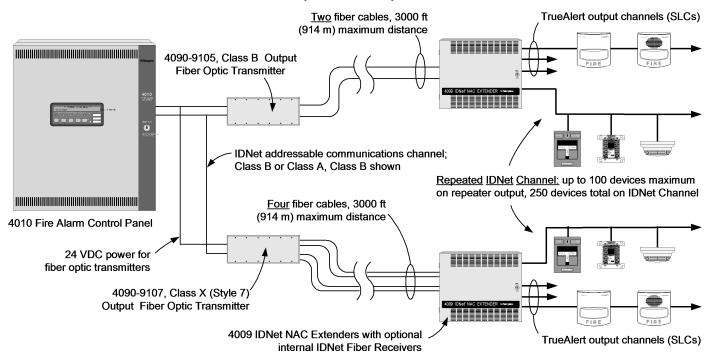


Figure 5: TrueAlert Addressable Controller with fiber optic IDNet input control

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### Wired NAC input connection information

### Wired conventional NAC input compatible

For applications where existing or new conventional notification appliance circuits (NACs) are available, the NACs can directly control the TrueAlert Addressable Controller. For details see TrueAlert addressable controller with wired control.

#### Flexible connection choices

You can connect two NACs from the same, or different host fire alarm control panels, to control the TrueAlert output channels. Multiple control selections provide flexible operation. See Table 5.

### **NAC input to SLC output control**

NAC input to SLC output control is selectable. See Table 5. Configure NAC input as Steady On, uncoded:

#### **Table 5: Output SLC control options**

| Input NAC | Α                 | В  |  |  |
|-----------|-------------------|--|--|--|
| NAC 1     | Controls visibles | Controls audibles and visibles on Channel 1        |  |  |
| NAC 2     | Controls audibles | Controls audibles and visibles on Channels 2 and 3 |  |  |

Strobe Output. TrueAlert Addressable Strobes are operated with synchronized flashes.

**Horn Output.** TrueAlert Addressable Horn operation is selectable for each TrueAlert Addressable Controller as either: Temporal pattern, March Time pattern at 60 bpm, 120 bpm, or Steady On.

#### Door mounted reference label

A detailed programming and diagnostic label is located inside the front door providing a guick reference for both installation and checkout.

### Service diagnostic features

**Power-up self-diagnostics.** On power-up, the TrueAlert Addressable Controller tests each module and performs earth fault diagnostics. Trouble conditions are communicated to the host control panel and are also displayed on internal LEDs.

**System troubles via RUI or IDNet.** Communications are reported with detailed information concerning which TrueAlert Addressable Controller is involved and the nature of the trouble. Messages include power and battery status, earth fault, channel troubles, address problems, and other information.

**System Troubles by wired control.** When controlled with conventional NAC inputs, common troubles are signaled by providing an open circuit that disconnects the NAC wiring from its end-of-line resistor but still enables a reversed polarity alarm to be received.

#### **LED status indicators** are provided for the following:

- Five yellow status LEDs provide 22 separate indications listed in priority of urgency. As a trouble is eliminated, any remaining troubles are indicated until the TrueAlert Addressable Controller is returned to normal operation.
- Three separate yellow LEDs indicate which of the three TrueAlert channels are involved for channel specific troubles.
- AC power status is indicated by a green LED that is on when AC is normal. During low AC, or brownout conditions, or with no AC, the LED is off. Additional power and battery status is indicated by the general status LEDs.

### TrueAlert addressable controller with wired control

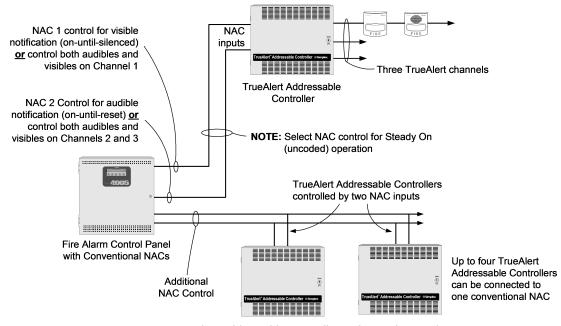


Figure 6: TrueAlert Addressable Controller with Wired Control

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# **Simplex**

## 4090-9105/4090-9107 IDNet fiber optic transmitter mounting information

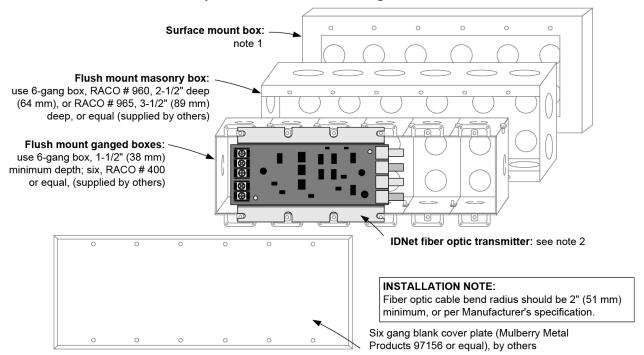


Figure 7: Mounting information

#### Note:

- 1. Simplex 2975-9217 surface mount box, ordered separately.
- 2. 4090-9107 Class X (Style 7) output: shown. 4090-9105, Class B, style 4, output: not shown.

### TrueAlert Addressable Controller mounting and module placement reference

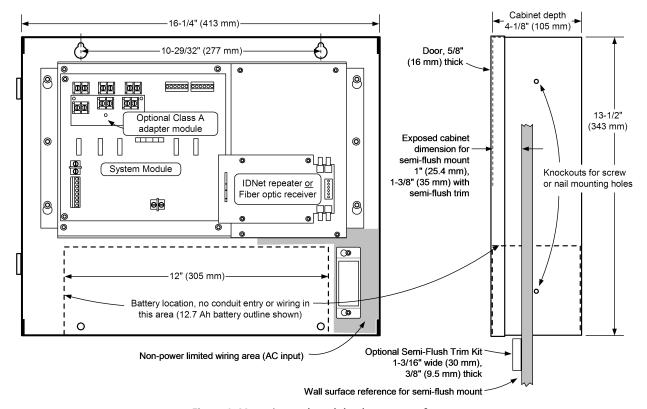


Figure 8: Mounting and module placement reference

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#### Note:

- Recommended conduit entrance varies with module selection.
- For model 4009-9401 and 4009-9402CA, refer to *Installation Instructions (574-762)*, specific option module installation instructions, and to *Field Wiring Diagram (842-158)* before locating conduit entrance.
- For model 4009-9501, refer to Installation Instructions (579-321) and Field Wiring Diagram (842-244).

## TrueAlert addressable controller and 4100ES TPS reference specifications

Note: For additional 4100ES TrueAlert Addressable Power Supply (TPS) specification details, refer to data sheet S4100-0065.

#### Table 6: Input voltages

| Rating                                     | Specification  |
|--|--|
| 120 VAC input, 4009-9401/4009-9402CA       | 3 A at 102 VAC to 132 VAC, 60 Hz   |
| 240 VAC input, 4009-9501.                  | 1.5 A, selectable for 220 / 240 VAC, +10% -15% for each selection, 50/60 Hz                          |
| Wired control input, requirements for each | 3 mA at 24 VDC. Input voltage range is 16 VDC to 33 VDC, filtered. Control from conventional reverse |
| circuit.                                   | polarity NA.   |

### **Table 7: Output ratings**

| Rating                                    |                                      | Specification  |  |  |  |
|---|--------------------------------------|--|--|--|--|
| TrueAlert channel output voltage (SLC)    |                                      | 19 VRMS to 31 VRMS, special application control  |  |  |  |
| Compatible special application appliances |                                      | Simplex TrueAlert and TrueAlert ES addressable notification appliances, with limitations.        |  |  |  |
|   |                                      | Contact your Simplex produc  | t representative for compatible appliances.                              |  |  |
| Appliance control                         | Category                             | Details  | TrueAlert ES Appliance Control Limitation                                |  |  |
| characteristics                           | Available strobe intensity           | 15, 30, 75, and 110 cd   | Not compatible with TrueAlert ES intensities of 135 and 185 cd           |  |  |
|   | Available horn control               | Continuous, Temporal Code<br>3, and March Time of 60<br>bpm or 120 bpm                           | Not compatible with TrueAlert ES horn tones of Temporal Code 4 or 20 bpm |  |  |
| Minimum appliance volt                    |                                      | 17 VRMS  | Not compatible with TrueAlert ES 23 VRMS appliance voltage minimum       |  |  |
| SLC ratings and                           | TrueAlert Addressable                | Up to 63 total addressable appliances  |  |  |  |
| loading                                   | Controller or 4100ES TPS             | Up to 75 unit loads, appliances are 1 unit load.   |  |  |  |
|   |                                      | Up to 32 fixed candela, legacy strobes can be synchronized for each SLC.                         |  |  |  |
|   | TrueAlert Addressable<br>Controllers | Each SLC can synchronize up to 39 multi-candela strobes. Total current for each controller is A. |  |  |  |
|   | 4100ES TPS                           | Each SLC can synchronize up  | to 46 multi-candela strobes. Total current for each TPS is 9 A           |  |  |
| Auxiliary output                          |                                      | 500 mA at 24 VDC nominal, requires 734-035 wiring harness  |  |  |  |
| TrueAlert SLC wiring                      |                                      | UTP, unshielded twisted pair, 18 AWG to 12 AWG   |  |  |  |
| TrueAlert strobe wiring distance          |                                      | Maximum wiring distance between TrueAlert strobes is limited to 30 $\Omega$ wire resistance      |  |  |  |
| Wiring connections                        |                                      | Terminal blocks for 18 AWG to 12 AWG   |  |  |  |

## **Table 8: Optional modules**

| Rating                        |  |                | Description  |  |  |  |
|-------------------------------|--|----------------|--|--|--|--|
|                               | Input power  |                | 70 mA at 24 VDC, system supplied   |  |  |  |
|                               | IDNet input, one address                                       |                | Maximum distance from IDNet source is 2500 ft (762 m)  |  |  |  |
| (4009-9809)                   | IDNet output s   | specifications | Repeated IDNet output for up to 100 devices, total IDNet devices not to exceed 250 for each channel. |  |  |  |
|                               |  |                | Refer to a specific panel's details for additional IDNet communications specifications.              |  |  |  |
|                               | Fiber optic Input current 4009-9810 receiver modules 4009-9811 |                | Class B, 65 mA at 24 VDC, system supplied  |  |  |  |
| receiver modules              |  |                | Class X, Style 7, 80 mA at 24 VDC, system supplied   |  |  |  |
|                               |  |                | <b>Note:</b> Fiber optic input is Class X, repeated IDNet output is Class A                          |  |  |  |
|                               | IDNet output specifications                                    |                | Same as those for Repeater Module, see top row.  |  |  |  |
| Fiber opti                    |  | nsmission      | Distance of 3000 ft (914 m) maximum  |  |  |  |
| General Operating temperature |  | perature       | 32°F to 120°F (0°C to 49°C)  |  |  |  |
|                               | Operating hur  | nidity range   | 10% to 90% RH from 32°F to 104°F (0°C to 40°C)   |  |  |  |

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# Fiber optic transmitter specifications

### **Table 9: Specifications**

| Rating                              |           | Description  |  |  |  |
|-------------------------------------|-----------|--|--|--|--|
| Input voltage                       |           | 18.9 VDC to 32 VDC from compatible listed fire alarm supply.       |  |  |  |
| Input current                       | 4090-9105 | Class B, 30 mA at 24 VDC   |  |  |  |
| input current                       | 4090-9107 | Class X, Style 7, 35 mA at 24 VDC                                  |  |  |  |
| Fiber optic connections and cable   | 4090-9105 | Class B input, two fiber cables required                           |  |  |  |
| requirements, type ST connectors.   | 4090-9107 | Class X, Style 7, input, four fiber cables required                |  |  |  |
| Module size, with mounting bracket. |           | 6-13/16 in. W x 3-3/4 in. H x 1-1/8 in. D (173 mm x 95 mm x 29 mm) |  |  |  |
|                                     | Green LED | Flashing means transmitting  |  |  |  |
| Onboard status Indicators.          | Red LED   | Flashing means receiving   |  |  |  |
|                                     | 4090-9107 | Separate red LED means Class X (Style 7) receive                   |  |  |  |
| Communications                      | <u>'</u>  | Simplex IDNet format   |  |  |  |
| Fiber optic transmission distance   |           | 3000 ft (914 m) maximum  |  |  |  |
| Wiring connections                  |           | Terminal blocks for 18 to 12 AWG                                   |  |  |  |
| Operating humidity                  |           | Up to 90% RH, non-condensing at 100° F (38° C)                     |  |  |  |
| Operating temperature               |           | 32° F to 120° F (0° C to 49° C)                                    |  |  |  |
|                                     |           |  |  |  |  |

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### TrueAlert Addressable Controller Current Reference

#### Table 10: Panel module selection

| sku  | Description                                   |                                | Supervisory<br>current       | Actual supervisory             | Alarm current         | Actual alarm |  |  |
|--|---|--------------------------------|------------------------------|--------------------------------|-----------------------|--------------|--|--|
| 4009-9401  | 120.1/4.6 input                               |                                |                              |                                |                       |              |  |  |
| 4009-9402 CA   | 120 VAC input                                 | Basic panel                    | 88 mA                        | 88 mA                          | 195 mA                | 195 mA       |  |  |
| 4009-9501  | 240 VAC input                                 |                                |                              |                                |                       |              |  |  |
| 4009-9812 See<br>note 3  | Class A adapter                               |                                | 7 mA                         | +                              | 7 mA                  | +            |  |  |
| 4009-9809 See<br>note 1 and 3  | IDNet repeater                                |                                | 70 mA                        |                                | 70 mA                 |              |  |  |
| 4009-9810 See<br>note 1,2 and 3  | Fiber optic receiver,                         | Class B                        | 65 mA +                      | +                              | 65 mA                 | +            |  |  |
| 4009-9811See<br>note 1,2 and 3   | Fiber optic receiver, Class X                 |                                | 80 mA                        |                                | 80 mA                 |              |  |  |
| <b>IDNet Devices,</b> 0.7 mA each, maximum of 100, see<br>Procedure step 5.                        |   | total devices x 0.7<br>mA each | +                            | total devices x 0.7<br>mA each | (A1)                  | +            |  |  |
|  | nces/Devices, Superv<br>bad, add devices from |                                | total loads x 0.2 mA<br>each | +                              |                       |              |  |  |
| <b>TrueAlert Isolators.</b> Each requires 1 address and 4 unit loads.                              |   | total Isolators x 10<br>mA     | +                            | total Isolators x 10<br>mA     |                       | +            |  |  |
| <b>Auxiliary Power Output,</b> calculate for each total device requirements, see Procedure step 5. |   | 500 mA maximum                 | +                            | 500 mA maximum                 | (A2)                  | +            |  |  |
|  |   | Total                          | Supervisory Current =        | (A)                            |                       |              |  |  |
|  |   |                                | Total TrueAlert Ad           | ddressable Controller          | Panel alarm current : | (B1)         |  |  |

#### Note:

- 1. For a single TrueAlert Addressable Controller, you can choose only one of these three modules.
- 2. IDNet Fiber Optic Transmitter current is supplied from the host fire alarm control panel.
- 3. Shaded model numbers are optional modules

#### Table 11: TrueAlert Channel Notification Appliance current loads

|  | Channel number | NAC alarm current |   |
|--|----------------|-------------------|---|
| <b>TrueAlert Channel (SLC)</b> 2.5 A maximum for each channel, see Procedure step 5  | Channel 1      |                   |   |
|  | Channel 2      | +                 |   |
|  | Channel 3      | +                 |   |
| Total TrueAlert Channel Loads alarm current =  |                | (C)               |   |
| Total TrueAlert Addressable Controller Panel alarm current, enter B1 from previous = |                | (B2)              | + |
| Total alarm current =  |                | (D)               |   |

### Procedure:

- 1. Calculate total panel supervisory current (A).
- 2. Calculate total panel alarm current (B1) [convert mA to A, example: 350 mA = 0.35 A]. Copy (B1) into block (B2).
- 3. Calculate total NAC loads alarm current from notification appliance ratings (C).
- 4. Add (C) + (B2) to determine total alarm current (D).
- 5. Total of IDNet device current (A1) + Auxiliary Power Output current (A2) + SLC Loads Alarm current (C) is 8 A maximum.
- 6. For specific standby requirements, refer to *Simplex battery selection document (900-012)* for recommended battery size. For example, 24 hours supervisory, 5 minutes of alarm. Internal cabinet space is provided for batteries up to 12.7 Ah.
- 7. Most TrueAlert appliances / devices are one unit load, Isolators are four unit loads. Refer to Field Wiring Diagram (842-158).