

## 1 | Overview

The DS2227 Series POPPT Modules includes the DS1227 (with magnetic tamper switch) and the DS1227u (without tamper). They are used with a compatible control panel to expand beyond its standard number of on-board initiating points. Future system expansion is more economical as the DS227 Series POPPTs can be added anywhere along the two-wire data expansion loop. Both modules include proven technology that combines point supervision with individual device addressing on one pair of wires. Some terminals provide reliable connections for the data expansion loop and supervised sensor loop wiring. The units are small and easily installed in standard outlet boxes, above false ceilings, closets, or other accessible locations.

## 2 | Installation

Use the steps in this section to install and configure the POPPT module.

### 2.1 | Remove the cover

- Insert a small flat-head screwdriver into one of the small slots in the side of the POPPT.
- Twist the screwdriver and remove the cover.

### 2.2 | Remove the PCB

- Grasp the terminal block on the PCB in one hand.
- Three tabs hold the PCB in the end with the two tabs, carefully but firmly, push one tab away from the PCB and lift the corner.
- Carefully but firmly, push the other tab away from the PCB and lift the entire PCB from the base.

### 2.3 | Mount the POPPT base

Pull the wiring through the wiring opening. Refer to Figure 12. Mount the POPPT base using the supplied hardware to prevent shorting the PCB.

## 2.4 | Replace the PCB

- Grasp the terminal block on the PCB with one hand, insert the DIP switch out of the PCB under the single tab.
- Carefully but firmly, pull the two tabs on the opposite ends away from the PCB.
- Gently lay the PCB in place and, if necessary, carefully, push the two tabs toward the PCB until the PCB is firmly in place.

## 2.5 | Configuration of DIP switch

Refer to Table 1 for DIP switch 0 settings and Section 4 for DIP switch configuration settings for ZONE1 and ZONE2.

Control panel	DIP switch 0 setting
DS1227S DS1227 DS1227S	Switch 0 ON
DS1227	Refer to POPPT Series Operation and Installation Guide (P/N: 74-07652-0000).
DS1227S DS1227S	Refer to Section 4.
DS1227S	Refer to Section 4.
DS1227S/2	Refer to Section 4.
DS1227S/3	Refer to Section 4.
DS1227S/4 DS1227S/4 DS1227S/4	Refer to Section 4.
DS1227S DS1227S-E DS1227S	Refer to Section 4.

For additional DS1227 installation information, refer to the compatible panel installation documentation.

Table 1. DIP switch 0 setting

## 3 | Wiring Instructions

For more information on POPPT installation (including wire type, length, and run) and programming, refer to the DS227 POPPT Operation and Installation Guide (P/N: 74-04247-0000) and control panel operation, installation, and programming manuals. Install a 30 kΩ end-of-line resistor at the farthest point on the loop for proper supervision. Replace the POPPT cover when the wiring is completed.



### NOTICE

When using 22 AWG (0.5 mm) maximum wire, use solid wire. If you use stranded wire, take care to insert all of the strands into the terminal block.

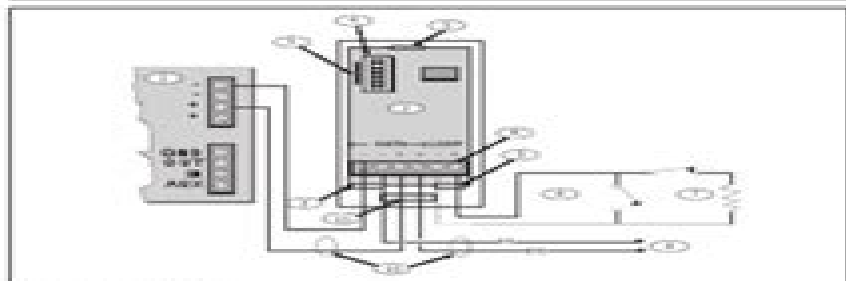


Figure 1. POPPT wiring

Callout	Description
1	DS1227 POPPT Module
2	DS1227/2 POPPT Module
3	Tab
4	DIP Switch
5	Reset switch (DS1227T only)
6	Detector loop
7	30 kΩ EOL resistor
8	Terminals (all): 22 AWG solid (maximum); 22 AWG (0.5 mm) stranded (minimum)
9	Zone expansion loop to other POPPTs
10	Supervised
11	Wire expansion of POPPT base

## 4 | ZONE1 and ZONE2 point address chart

Geographical Area		Geographical Area									
Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area
Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1	Area 1
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Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6	Area 6
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