D9127 Series POPIT Modules

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Invented for life



- Provides point identification of initiating devices
- Supervises wiring to devices for circuit integrity
- Expands the number of points in the system
- Compact size
- Terminal connections for reliability

The D9127 Series POPIT Modules includes the D9127T (with magnetic tamper switch) and the D9127U (without tamper). They are used with a D8125 or B299 Addressable Expansion Module when there is a need to expand a compatible control panel beyond its standard number of on-board initiating zones or points. Future system expansion is very economical as D9127 Series POPITs can be added anywhere along the two-wire data expansion loop from the D8125 or B299 modules.
Both modules include proven technology that combines zone and point supervision with individual device addressing on one pair of wires. Screw terminals provide reliable connections for the data expansion loop and supervised sensor loop wiring. Install a 33 kΩ end-of-line resistor at the farthest point on the loop for proper supervision. The units are small and easily installed in standard outlet boxes, above false ceilings, closets, or other accessible locations.

Certifications and approvals

Region	Regulatory compliance/quality marks	
USA	UL	
	UL	UL 365 - Police Station Connected Burglar Alarm Units
	UL	UL 464 - Standard for Audible Signal Appliances
	UL	UL 609 - Standard for Local Burglar Alarm Units and Systems
	UL	UL 864 - Standard for Control Units and Accessories for Fire Alarm Systems (10th edition)
	UL	UL 985 - Household Fire Warning System Units (6th edition)
	UL	UL 1023 - Household Burglar Alarm System Units
	UL	UL 1076 - Proprietary Burglar Alarm Units and Systems
	UL	UL 1610 - Central Station Burglar Alarm Units
	UL	UL 1635 - Standard for Digital Alarm Communicator System Units

Region	Regulatory compliance/quality marks	
	FM	
	CSFM	California State Fire Marshal
	FDNY-CoA	6059 [D9412GV3 & D7412GV3]
	FDNY-CoA	6286 D7412GV4 D9412GV4 NYC COA 6286 2018-2021
	FDNY-CoA	6196
Australia	CTICK	C-Tick
Canada	ULC	CAN/ULC S304 - Standard for Signal Receiving Center and Premise Burglar Alarm
	ULC	S303 - Local Burglar Alarm Units and Systems
	ULC	ULC 365 - Police Station Connected Burglar Alarm Units
	ULC	APOU7.S1871 Proprietary Alarm Units Certified for Canada
	ULC	ULC-ORD C1023 - Household Burglar Alarm System Units

Installation/configuration notes

Compatibility Information

Control Panels	All G Series control panels, D9412, D7412, D7212, D7212B1, D9112, D9112B1, D8112G1, D8112G2, and D9124
Modules	D8125, B299

The D8125 or B299 POPEX Modules are required. The D9127 modules are wired in parallel on the D8125 or B299 data loops.

Number of POPIT Modules per Control Panel

D7212G, D7212GV2, D7212GV3	32 D9127 POPITs
D7212B1	40 D9127 POPITs
D7212, D7412, D7412G, D7412GV2, D7412GV3, D7412GV4	67 D9127 POPITs
D9124	119 D9127 POPITs
D9112B1	126 D9127 POPITs
D9112, D9412, D9412G, D9412GV2, D9412GV3, D9412GV4	238 D9127 POPITs
B8512G (D8125)	67 D9127 POPITs
B8512G (B299)	91 D9127 POPITs
B9512G (D8125)	238 D9127 POPITs
B9512G (B299)	591 D9127 POPITs

Wiring Considerations

Wire Size	Maximum Length of all Data Expansion Loops Combined
0.8 mm (22 AWG)	549 m (1800 ft)
1.0 mm (20 AWG)	881 m (2890 ft)
1.2 mm (18 AWG)	1402 m (4600 ft)
1.5 mm (16 AWG)	2231 m (7320 ft)
1.8 mm (14 AWG)	3551 m (11650 ft)

D8125 or B299 POPIT Loops

Use one two-wire data expansion loop, or distribute the POPITs on multiple loops. The maximum lengths shown in the following table are for all data expansion loops combined connected to the same D8125 or B299 module. Setting DIP switches on the POPIT modules assigns them to point numbers. The switch setting on each POPIT assigns it a point number, regardless of its physical location.

POPIT to Sensor Loops

The number of detection devices each sensor loop can supervise is limited only by the resistance on the loop. Resistance on each sensor loop must be less than 100 Ω not including the end-of-line (EOL) resistor. Certain UL and National Fire Protection Association (NFPA) applications can limit the number of detection devices. Consult the appropriate UL or NFPA standards.

Terminate each POPIT sensor loop with the 33 kΩ EOL resistor included with each POPIT.

Use a twisted-pair wire (six twists per foot) in all POPIT installations for both the data expansion loop wiring and the POPIT sensor loops. Run wires away from AC sources to prevent AC induction.

Technical specifications

Environmental Considerations

Relative humidity	Up to 93% non-condensing
Temperature (operating)	0°C to +60°C (+32°F to +140°F) *For UL Certifcated Installations, 0°C to +50°C (+32°F to +122°F)*

Properties

Color	Off white
Dimensions	8.1 cm x 3.8 cm x 2.4 cm (3.2 in. x 1.5 in. x 0.9 in.)
Material	UL Listed fire-resistant

Power Requirements

Current draw	0.8 mA maximum
Resistance	Maximum increase in resistance on the POPIT loop is 1000 Ω. Maximum resistance between the D8125 or B299 modules and each POPIT is 90 Ω.
Voltage (operating)	12 VDC nominal

Sensor Loop

Resistance	Maximum resistance on the sensor loop is 100 Ω.
Response time	1 sec approximately

Ordering information

D9127T POPIT input module with tamper
Includes a magnetic tamper switch.
Order number **D9127T**

D9127U POPIT input module without tamper
No tamper switch.
Order number **D9127U**

D9127T-CHI POPIT input module with tamper
Includes a magnetic tamper switch.
Order number **D9127T-CHI**

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