1 | Overview

The D9127 Series POPIT Modules includes the D9127T (with magnetic tamper switch) and the D9127U (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 very economical as D9127 Series POPITs 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. Screw 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 POPIT module.

2.1 | Remove the cover

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

2.2 | Remove the PCB

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

2.3 | Mount the POPIT base

Pull the wiring through the wiring opening (refer to *Figure 1*). Mount the POPIT base using the supplied hardware to prevent shorting the PCB.

2.4 | Replace the PCB

1. Grasp the terminal block on the PCB with one hand. Insert the DIP switch end of the PCB under the single tab.
2. Carefully but firmly, pull the two tabs on the opposite ends away from the PCB.
3. 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 ZONEX and ZONEX 2.

Control panel	DIP switch 0 setting
D7212B1 D8112 D9112B1	Leave switch 0 ON.
D9412	Refer to 9000 Series Operation and Installation Guide (P/N: 74-07692-000).
D9412G D7412G	Refer to *Section 4*.
D7212G	Refer to *Section 4*.
D7212GV2	Refer to *Section 4*.
D7212GV3	Refer to *Section 4*.
D7212GV4 D9412GV4 D7412GV4	Refer to *Section 4*.
B9512G B9512G-E B8512G B8512G-E	Refer to *Section 4*.
For additional D9127 installation information, refer to the compatible panel installation documentation.	

Table 1: DIP switch 0 setting

3 | Wiring Instructions

For more information on POPIT installation (including wire type, length, and run) and programming, refer to the *D8125 POPEX Operation and Installation Guide* (P/N: 74-04247-000) and control panel operation, installation, and programming manuals. Install a 33 kΩ end-of-line resistor at the farthest point on the loop for proper supervision. Replace the POPIT cover when the wiring is completed.

> **NOTICE!**
> When using 12 AWG (0.1 mm) maximum wire, use solid wire. If you use stranded wire, take care to insert all of the strands into the terminal block.
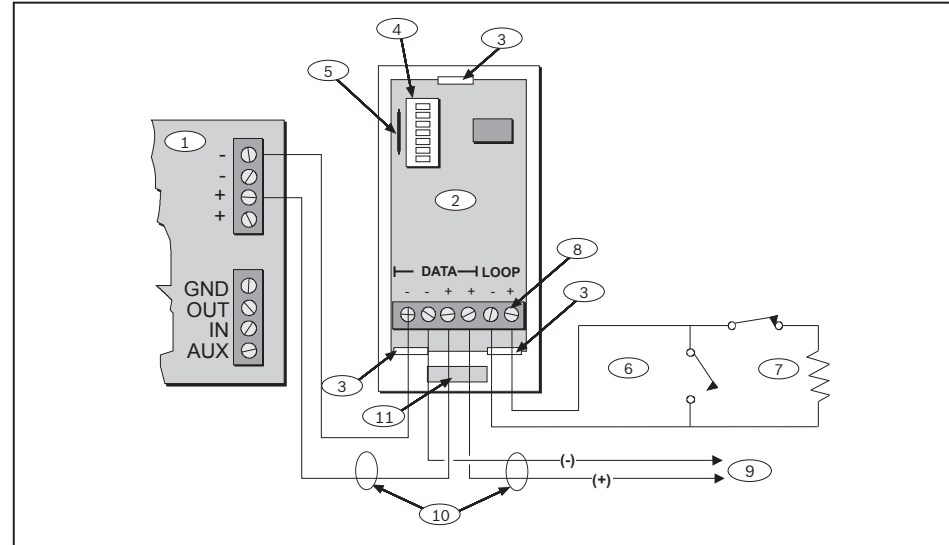
Figure 1: POPIT Wiring

Callout — Description
1 — D8125 POPEX Module
2 — D9127U/T POPIT Module
3 — Tab
4 — DIP Switch
5 — Reed switch (D9127T only)
6 — Detector loop
7 — 33 kΩ EOL resistor
8 — Terminals (all): 12 AWG solid (maximum); 22 AWG (0.1 mm) stranded (minimum)
9 — Zone expansion loop to other POPITs
10 — Supervised
11 — Wire opening of POPIT base

4 | ZONEX and ZONEX 2 point address chart

ZONEX 1	ZONEX 2	B299	0	1	2	3	4	5	6
009	129	x00*	ON	ON	ON	ON	ON	ON	ON
010	130	x01*	ON	ON	ON	ON	ON	ON	
011	131	x02*	ON	ON	ON	ON	ON		ON
012	132	x03*	ON	ON	ON	ON	ON		
013	133	x04*	ON	ON	ON	ON		ON	ON
014	134	x05*	ON	ON	ON	ON		ON	
015	135	x06*	ON	ON	ON	ON			ON
016	136	x07*	ON	ON	ON	ON			
017	137	x08*	ON	ON	ON		ON	ON	ON
018	138	x09	ON	ON	ON		ON	ON	
019	139	x10	ON	ON	ON		ON		ON
020	140	x11	ON	ON	ON		ON		
021	141	x12	ON	ON	ON			ON	ON
022	142	x13	ON	ON	ON			ON	
023	143	x14	ON	ON	ON				ON
024	144	x15	ON	ON	ON				
025	145	x16	ON	ON		ON	ON	ON	ON
026	146	x17	ON	ON		ON	ON	ON	
027	147	x18	ON	ON		ON	ON		ON
028	148	x19	ON	ON		ON	ON		
029	149	x20	ON	ON		ON		ON	ON
030	150	x21	ON	ON		ON		ON	
031	151	x22	ON	ON		ON			ON
032	152	x23	ON	ON		ON			
033	153	x24	ON	ON			ON	ON	ON
034	154	x25	ON	ON			ON	ON	
035	155	x26	ON	ON			ON		ON
036	156	x27	ON	ON			ON		
037	157	x28	ON	ON				ON	ON
038	158	x29	ON	ON				ON	
039	159	x30	ON	ON					ON
040	160	x31	ON	ON					
041	161	x32	ON		ON	ON	ON	ON	ON
042	162	x33	ON		ON	ON	ON	ON	
043	163	x34	ON		ON	ON	ON		ON
044	164	x35	ON		ON	ON	ON		
045	165	x36	ON		ON	ON		ON	ON
046	166	x37	ON		ON	ON		ON	
047	167	x38	ON		ON	ON			ON
048	168	x39	ON		ON	ON			
049	169	x40	ON		ON		ON	ON	ON
050	170	x41	ON		ON		ON	ON	
051	171	x42	ON		ON		ON		ON
052	172	x43	ON		ON		ON		
053	173	x44	ON		ON			ON	ON
054	174	x45	ON		ON			ON	
055	175	x46	ON		ON				ON
056	176	x47	ON		ON				
057	177	x48	ON			ON	ON	ON	ON
058	178	x49	ON			ON	ON	ON	
059	179	x50	ON			ON	ON		ON

¹ ZONEX 1: Points 9 to 127 (D9412G); Points 9 to 75 (D7412G).
ZONEX 2: Points 129 to 247 (D9412G).
B299: x = B299 module address 0-5
* These point numbers are not available for B299 address 0.

ZONEX 1	ZONEX 2	B299	0	1	2	3	4	5	6
060	180	x51	ON			ON	ON		
061	181	x52	ON			ON		ON	ON
062	182	x53	ON			ON		ON	
063	183	x54	ON			ON			ON
064	184	x55	ON			ON			
065	185	x56	ON				ON	ON	ON
066	186	x57	ON				ON	ON	
067	187	x58	ON				ON		ON
068	188	x59	ON				ON		
069	189	x60	ON					ON	ON
070	190	x61	ON					ON	
071	191	x62	ON						ON
072	192	x63	ON						
073	193	x64		ON	ON	ON	ON	ON	ON
074	194	x65		ON	ON	ON	ON	ON	
075	195	x66		ON	ON	ON	ON		ON
076	196	x67		ON	ON	ON	ON		
077	197	x68		ON	ON	ON		ON	ON
078	198	x69		ON	ON	ON		ON	
079	199	x70		ON	ON	ON			ON
080	200	x71		ON	ON	ON			
081	201	x72		ON	ON		ON	ON	ON
082	202	x73		ON	ON		ON	ON	
083	203	x74		ON	ON		ON		ON
084	204	x75		ON	ON		ON		
085	205	x76		ON	ON			ON	ON
086	206	x77		ON	ON			ON	
087	207	x78		ON	ON				ON
088	208	x79		ON	ON				
089	209	x80		ON		ON	ON	ON	ON
090	210	x81		ON		ON	ON	ON	
091	211	x82		ON		ON	ON		ON
092	212	x83		ON		ON	ON		
093	213	x84		ON		ON		ON	ON
094	214	x85		ON		ON		ON	
095	215	x86		ON		ON			ON
096	216	x87		ON		ON			
097	217	x88		ON			ON	ON	ON
098	218	x89		ON			ON	ON	
099	219	x90		ON			ON		ON
100	220	x91		ON			ON		
101	221	x92		ON				ON	ON
102	222	x93		ON				ON	
103	223	x94		ON					ON
104	224	x95		ON					
105	225	x96			ON	ON	ON	ON	ON
106	226	x97			ON	ON	ON	ON	
107	227	x98			ON	ON	ON		ON
108	228	x99			ON	ON	ON		
109	229				ON	ON		ON	ON
110	230				ON	ON		ON	

¹ ZONEX 1: Points 9 to 127 (D9412G); Points 9 to 75 (D7412G).
ZONEX 2: Points 129 to 247 (D9412G).
B299: x = B299 module address 0-5
* These point numbers are not available for B299 address 0.

ZONEX 1	ZONEX 2	B299	0	1	2	3	4	5	6
111	231				ON	ON			ON
112	232				ON	ON			
113	233				ON		ON	ON	ON
114	234				ON		ON	ON	
115	235				ON		ON		ON
116	236				ON		ON		
117	237				ON			ON	ON
118	238				ON			ON	
119	239				ON				ON
120	240				ON				
121	241					ON	ON	ON	ON
122	242					ON	ON	ON	
123	243					ON	ON		ON
124	244					ON	ON		
125	245					ON		ON	ON
126	246					ON		ON	
127	247					ON			ON
128	248	not available							

¹ ZONEX 1: Points 9 to 127 (D9412G); Points 9 to 75 (D7412G).
ZONEX 2: Points 129 to 247 (D9412G).
B299: x = B299 module address 0-5
* These point numbers are not available for B299 address 0.

5 | Specifications

Operating Voltage	Nominal 12 VDC supplied by control panel
Operating Current per D9127U/T	0.8 mA Standby 0.8 mA Alarm

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Bosch Security Systems, Inc. product manufacturing dates
Use the serial number located on the product label and refer to the Bosch Security Systems, Inc. website at http://www.boschsecurity.com/datecodes/.

POPIT Module
D9127U/T

BOSCH

en Installation Guide