Radionics®

Using the D8128A OctoPOPIT Module with the D7112, D7212, and D9112

Before You Begin

The D8128A is for use only with the D7112, D7212 and D9112 Control/Communicators.

You must use the D8128B with the D8112.

If you have a D7112, D7212 or D9112 Control/Communicator Panel, use these instructions. Before installing the OctoPOPIT you should be familiar with the *Operation and Installation Manual* and the *Program Entry Guide* that correspond to your system.

Configuring the D8128A OctoPOPIT

OctoPOPIT Sensor Loops

Each OctoPOPIT sensor loop can supervise an unlimited number of normally-open and/or normally-closed detection devices, but not to exceed 200 Ω of loop resistance.

For commercial fire applications, fire alarm initiating or supervisory devices cannot be connected to OctoPOPIT sensor loops.

Exception: It is okay when the OctoPOPIT is located in the fire enclosure or in an enclosure that is within 20 feet of the control/communicator and is connected by conduit. A D125B or D129 shall be used for any alarm initiating device before connecting to the sensor loops. A D192C shall be used for bell supervision.

The OctoPOPIT detects open, short, and normal circuit conditions on its sensor loops and transmits the conditions to the D7112, D7212 or D9112. Each sensor loop is assigned a point number and transmits to the D7112, D7212 or D9112 separately.

Sensor Loop Switches 1 to 8

Switches 1 to 8 activate each of the eight OctoPOPIT's sensor loops. If you don't use the loop, set the switch to the OFF position and terminate each OctoPOPIT sensor loop with a 1K Ω end-of-line resistor. The OctoPOPIT comes with a Radionics D105BL resistor for each sensor loop. This does not apply the the D7112.

Point Assignment Switches 9, 10, and 11

Switches 9, 10 and 11 on the OctoPOPIT assign the sensor loops to D7112, D7212 or D9112 point numbers. Table 1 (page 3) and Table 2 (page 4) show the OctoPOPIT switch settings for point assignments. Each setting assigns point numbers to all eight sensor loops.

Duplicated points do not function correctly: Take care not to duplicate point assignments. Points assigned to two OctoPOPIT sensor loops do not function properly.

Line Termination Switch 12

Place switch 12 in the OFF position for all OctoPOPITs connected to a D7112. Refer to page 30 of the *D7112 Operation and Installation Manual.* For D7212 installations, refer to page 43 of the *D7212 Operation and Installation Manual.* Refer to page 44 of the *D9112 Operation and Installation Manual* for D9112 installations.

Installing the D8128A OctoPOPIT

Installing the D8128A OctoPOPIT: Install the D8128A OctoPOPIT in the same enclosure as the D7112, or in the D7212 or D9112, no more than 200 feet from the panel. See the *Operation and Installation Manual.*

1. Align the OctoPOPIT module with any of the four mounting locations in the enclosure.
2. Use the screws provided with the module to secure it in the enclosure.

Wiring OctoPOPIT Sensor Loops

Radionics recommends you use twisted-pair wire in all POPEX/POPIT installations for both the data expansion loop wiring and the OctoPOPIT sensor loops. Run the wires for the OctoPOPIT sensor loops away from the premises telephone and AC wiring to prevent EMI problems. If you suspect a noisy environment, use shielded cable. See *EMI (Electro Magnetic Interference)* in the *Installation* section of the *D7112, D7212 or D9112 Operation and Installation Manual.*

The positive outputs for the sensor loops are labeled *P1* to *P8.* Sensor loop outputs P1 and P2, P3 and P4, P5 and P6, and P7 and P8 share common terminals. The common terminals for each pair are labeled *COM.* See Figure 2.

Terminate each sensor loop with one of the Radionics D105BL 1K Ω end-of-line resistors provided with the OctoPOPIT. **Attach a resistor even if you don't intend to use the loop.**

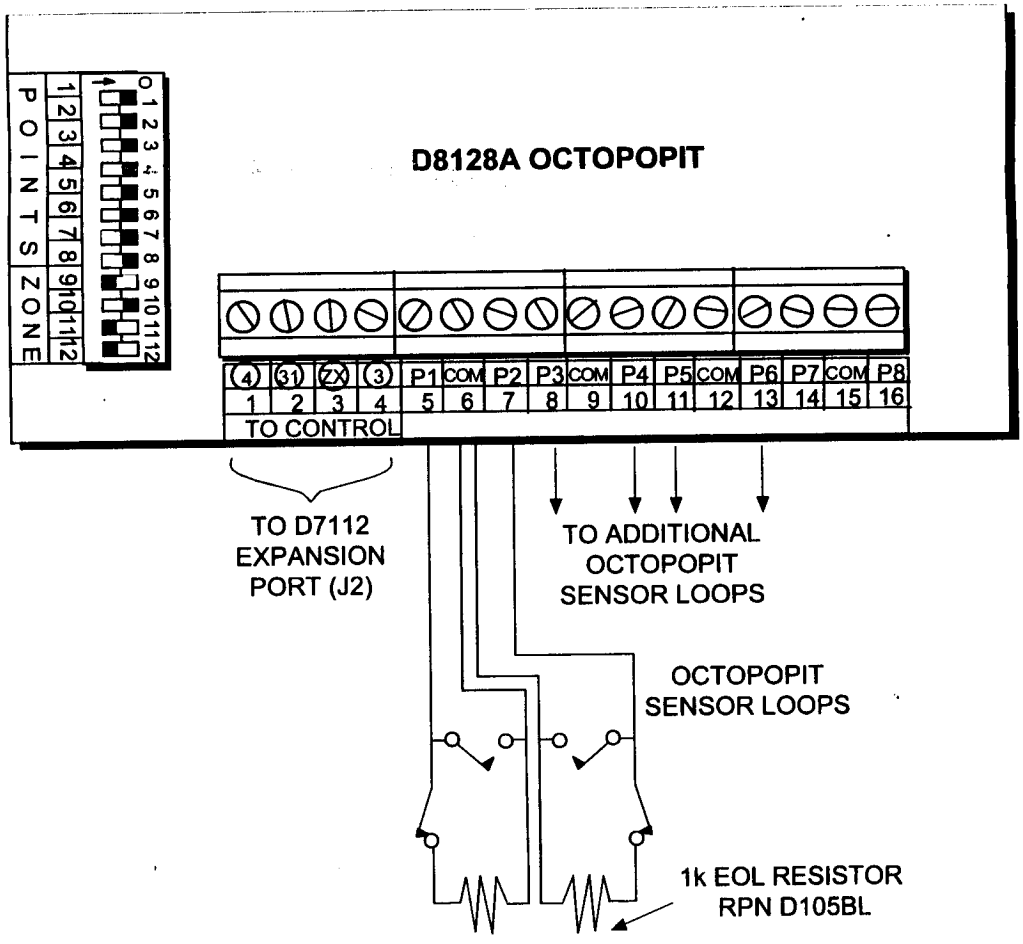

Figure 1: D8128A Sensor Loops

Using the D8128A OctoPOPIT Module with the D7112

You can connect a maximum of three D8128A modules to the D7112 for a total of 24 off-board points.

A 2.2k Ω pull-up resistor and a four color flying lead are packaged with the D8128A OctoPOPIT. Both items are ***ONLY*** used for D7112 installations.

D8128A not compatible with other modules: You cannot connect any other expansion modules to the J2 Expansion Port on the D7112 if you use the D8128A OctoPOPIT.

D8128A not suitable for fire or combined fire/burglary systems: Do not use the D8128A for D7112 fire or combined fire/burglary systems. The D8128A is not compatible with the D728 Dual Phone Line Switcher Module required for fire systems.

Use the following instructions to set the switches on the OctoPOPIT before you install it in the enclosure with the D7112. do not remove the OctoPOPIT.See Figure 2 for the location of the switches.

D7112 Point Numbers	Switch Settings for D8128 Switches 9, 10, 11
9 to 14	Off - On - Off
17 to 24	Off - Off - On
25 to 32	Off - Off - Off
Switches 1 to 8 must always be in the On position for D7112 installations.	
Switch 12 must always be in the Off position for D7112 installations.	

Table 1: D8128ASwitch Settings

D7112 Setting and Installation

Wire one to three D8128A OctoPOPIT Modules in parallel to the four color flying lead provided with the OctoPOPIT as shown in Figure 2 below.

Plug the 4-pin connector of the flying lead into the Expansion Port (J2) on the D7112. Wire the leads to the OctoPOPIT as shown in Figure 2.

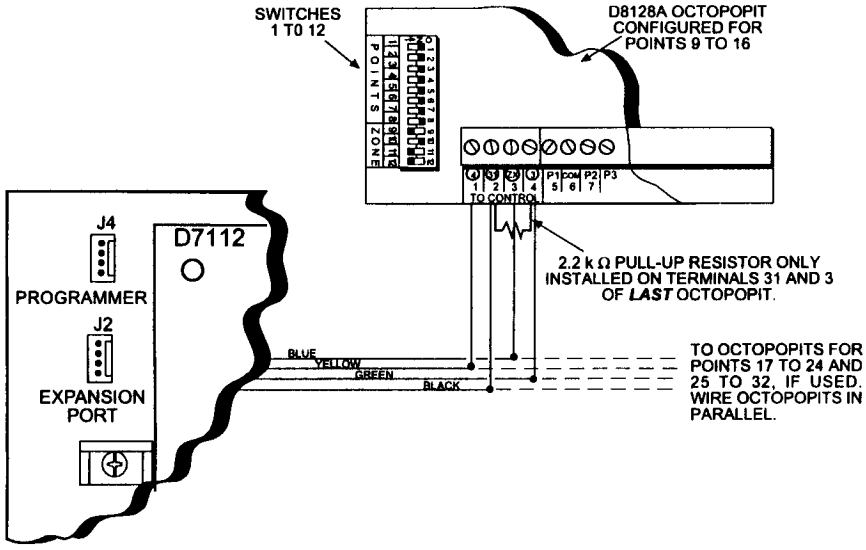

Figure 2: D8128A OctoPOPIT Wiring for the D7112 Only

D7212 and D9112 Settings and Installation

OctoPopit Switch Settings

Zonex Bus 1 Terminal 27&28 Point 9 - 71	Switches 9	10	11	Zonex Bus 2 Terminal 25&26 Point 73 - 135\
9 - 16	ON	ON	ON	73 - 80
17 - 24	ON	ON	OFF	81 - 88
25 - 32	ON	OFF	ON	89 - 96
33 - 40	ON	OFF	OFF	97 - 104
41 - 48	OFF	ON	ON	105 - 112
49 - 56	OFF	ON	OFF	113 -120
57 - 64	OFF	OFF	ON	121 - 128
65 - 71	OFF	OFF	OFF	128 - 135

Switches 1 to 8 should be On.For unused loops, turn off the switch. Terminate all loops with a 1k Ω resistor.

Refer to page 43 of the D7212 and page 44 of the D9112 Operation and Intallation manuals for line termination of switch 12.

Table 2: D9112 OctoPopit Switch Settings for the D7212 and D9112

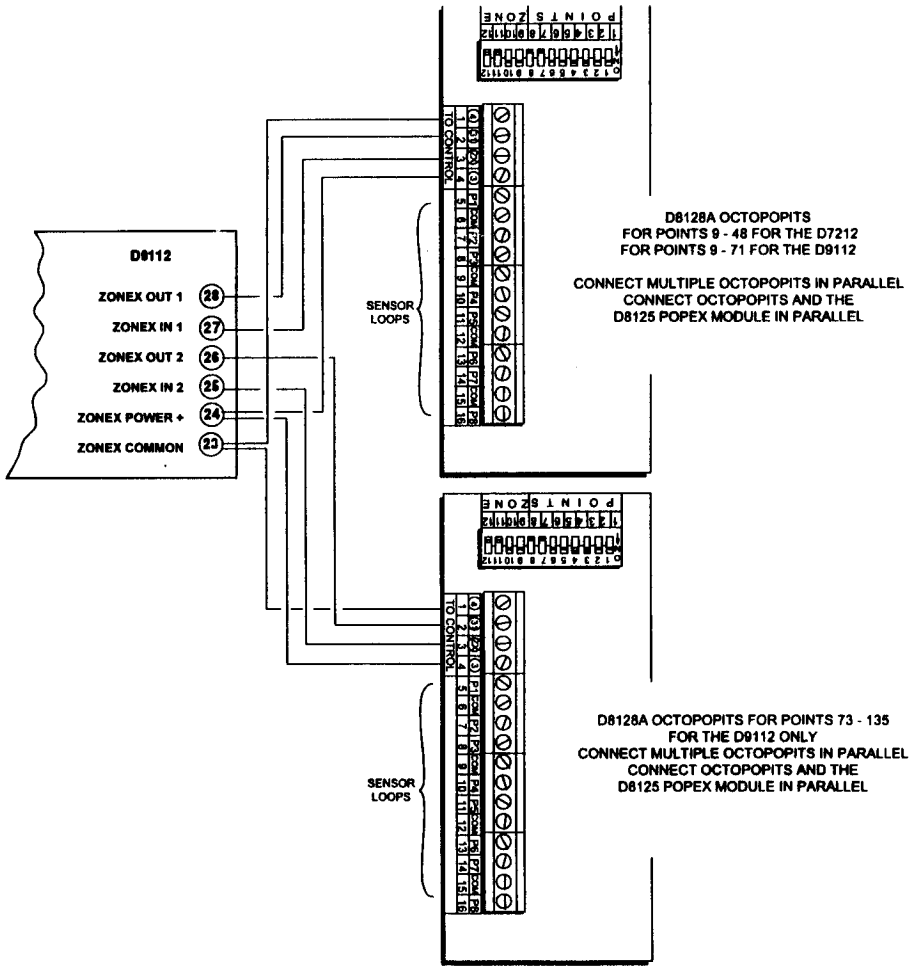

Figure 3: D8128A OctoPOPIT Wiring for the D7212 and D9112

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