

R A D I O N I C S

Omegalarm D8112 ZONEX System Specification Sheet

Description

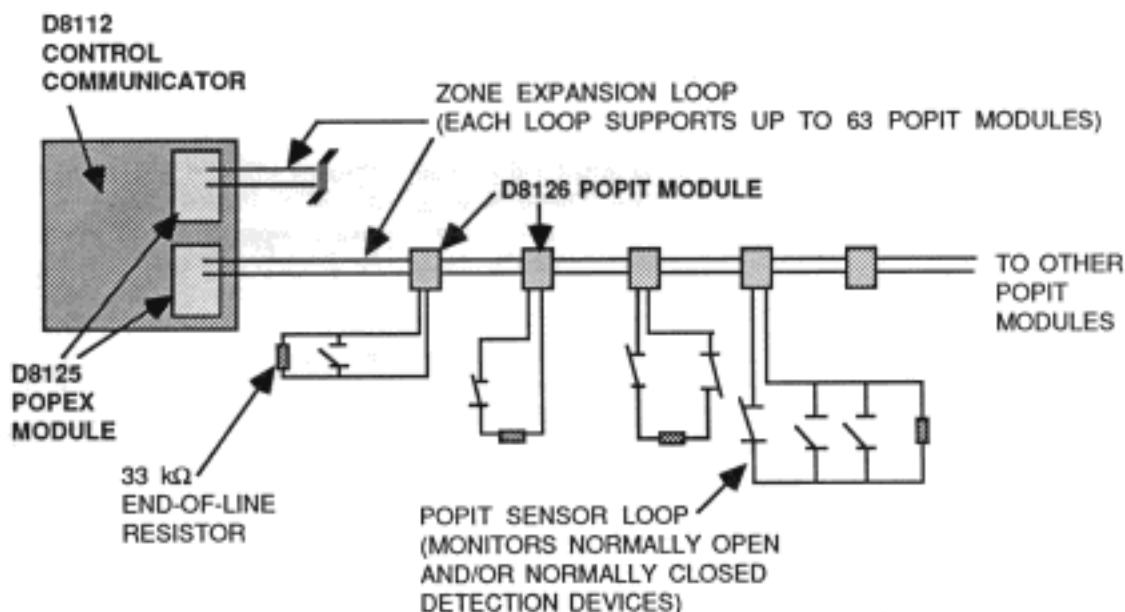
THE RADIONICS D8112 ZONEX SYSTEM IS A CONCEPT which is a UL listed zone expansion package comprised of POPEX/POPIT or OctoPOPIT hardware utilizing the D8112G Control/Communicator security system. The standard D8112G Control/Communicator is an eight zone system. With the ZONEX package you may add up to 126 individual points-of-protection. The D8112G retains its eight "master" protective zones, and installation and programming for these zones remains standard. Each ZONEX point-of-protection assumes the programmable characteristics of the "master" or "home" zone to which it is assigned. The fully expanded ZONEX system can supervise a total of 134 individual points of protection (8 protective zones plus 126 expansion points).

POPEX Modules (Point-of-Protection Expansion)

One of the available interfaces between the D8112G and the ZONEX system is the POPEX Module. One POPEX Module can supervise up to 63 POPIT Modules. (You may install one or two POPEX Modules in the system.) Over one two-conductor zone expansion loop, up to 63 POPITs communicate back to the control/communicator via the POPEX Module. The POPITs connected to a single POPEX loop may supervise a variety of detection devices, (eg. heat detectors, carpet mats, magnetic contacts, etc).

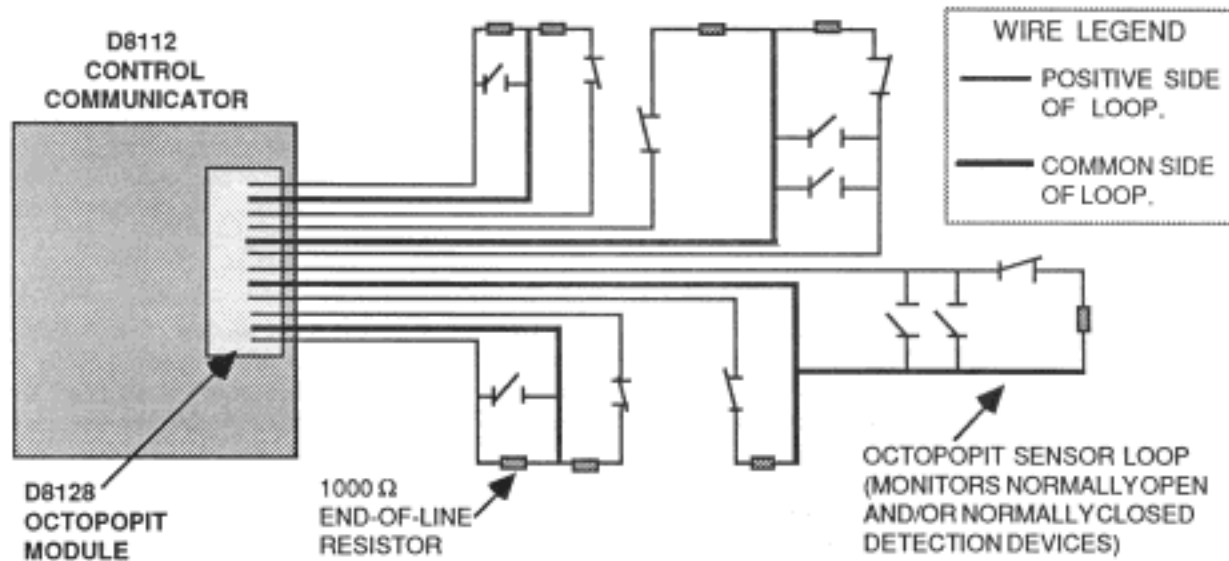
POPIT Modules (Point-of-Protection Identification Transponder)

The POPIT Module is used with the POPEX Module to supervise security system zone expansion points. The POPIT Module is connected to a two-conductor "zone expansion loop" which runs back to the control/communicator. Each POPIT has its own sensor loop which may monitor normally open and/or normally closed detection devices. POPIT sensor loops are supervised with a 33k Ω end-of-line resistor.



OctoPOPIT Modules (Octal Point-of-Protection Identification Transponder)

The OctoPOPIT Module combines the functions of a POPEX Module and *eight* POPIT Modules. Each of the eight OctoPOPIT sensor loops has a separate enable, can monitor normally open and/or normally closed detection devices, and is supervised with a 1000Ω end-of-line resistor. As many as sixteen OctoPOPIT Modules can be connected directly to a D8112 Control/Communicator, providing up to 126 expansion points. Both OctoPOPIT and POPEX/POPIT hardware can be installed in the *same* ZONEX system.



How they work

The ZONEX system actually converts the D8112G into a master control panel which supervises the activity of all the remote points-of-protection. Each of the protective zones of the D8112G are converted into *master zones*. A master zone is programmed to respond to detection circuits just like a normal D8112, however each master zone may be programmed to manage up to sixteen points-of-protection. (Six of the eight zones may be programmed to manage 16 points of protection. Two zones are limited to 15 points of protection.) Likewise, each POPIT and OctoPOPIT Module is programmed to communicate to one of the master zones of the D8112G.

The components of the ZONEX system are easy to install and program. Through software programming, one POPEX loop or OctoPOPIT can monitor several types of detection devices. No longer are your installations restricted by hardware and wiring; now all your detection devices may be wired to just a few zone expansion loops. As the system is installed, just program each POPIT or OctoPOPIT to transmit its information to the master zone which best suits its detection devices.

System Annunciation

One of the most powerful features of the ZONEX system is its ability to annunciate every expansion point at any Alpha II Command Center. This local annunciation shows precisely where an alarm or service event is occurring. With custom text displays programmed into the system, the Alpha II can tell you in plain English which door or window is open. The system can also store events in its memory for review at a later time.

Programming

The ZONEX system is programmed with the Radionics D5100 Bar Code Programmer -- the same programmer used to load the D8112G Control/Communicator. When using the ZONEX system you will have to load additional product handler information into the D8112G, however, most of the ZONEX programming relies on parameters already programmed into the 8112:MAIN Product Handler. The following is a list of ZONEX related product handlers.

- Required for system: 8112:MAIN.A7* (main product handler for the D8112 system)
- Required for ZONEX: 8112:AUX.A8* (this handler contains the special ZONEX parameters)
- Optional: 8112:PTEXT.A5* (this handler constructs custom text displays for each expansion point)

* All handlers are listed with their latest revision level (A5, A7, A8). Any later revision levels are also acceptable.

System Requirements

There are five basic components which make up the Radionics D8112 ZONEX security system.

1) The *Radionics D8112G Control/Communicator* is an eight zone, 12 volt control panel with an integrated digital communicator. The D8112G is fully programmable with over 120 program options. Features include 1 amp* auxiliary power supply, 2 amp alarm power output with three separate output options and 14 individual arming/reporting combinations.

* Available Auxiliary Power is decreased according to the current consumption of accessories connected to the D8112.

2) The *Radionics D8125 POPEX Module* can supervise up to 63 individual points-of-protection. One or two POPEX Modules can be installed in the system, giving you control over the size of the expanded system. The POPEX Module connects to the D8112G through a four-conductor cable supplying +12VDC, Common, Zone Expander 1 or 2, and Data Out.

3) The *Radionics D8126 POPIT Module* is used with the POPEX Module to supervise each point-of-protection. The POPIT uses a standard sensor loop to monitor normally open and/or normally closed devices. The POPIT can supervise any number of detection devices per sensor loop, however, the POPIT supervises the loop as a *whole* and does not supervise individual detection devices. To obtain individual device supervision and annunciation, the POPIT Module sensor loop must be dedicated to *one* detection device.

The POPIT Module is connected to the POPEX Module through a two-conductor zone expansion loop. Through this connection, the POPIT communicates its sensor loop status indicating open circuit, short circuit, normal circuit, and other system conditions. A dip switch on each POPIT Module is used to assign the POPIT to a master zone of the control/communicator.

4) The *Radionics D8128 OctoPOPIT Module* can supervise up to eight individual points-of-protection. As many as sixteen OctoPOPIT Modules can be installed in the system. No POPEX Modules are required. The OctoPOPIT Module connects directly to the D8112G through a four-conductor cable supplying +12 VDC, Common, Zone Expander 1 or 2, and Data Out. The OctoPOPIT can communicate status for each of its eight sensor loops indicating open circuit, short circuit, normal circuit, missing OctoPOPIT, and extra OctoPOPIT. A DIP switch on each OctoPOPIT Module is used to assign the OctoPOPIT to a master zone of the control/communicator, and to enable each of the eight sensor loops.

5) The *Radionics D1252 Alpha II Command Center* completes the system with local annunciation for each expansion point. In addition to providing the security system with an arming station, the Alpha II can show system status in an English language format, making large installations very user friendly.

UL and NFPA Applications

The D8112 ZONEX system is UL listed for all of the applications listed below.

The D8126U or the D8126T POPIT Module can be used for:

Household Fire/NFPA 74, Household Burglar, Local Fire/NFPA 72A, Central Station Fire/NFPA 71, and Electrically Actuated Transmitter.

The D8126T POPIT Module (or the D8126U when installed in a tampered enclosure) can be used for:

Police Connected Burglar, Central Station Burglar, and any mercantile combination fire and burglar system.

The D8128 OctoPOPIT Module can be used for:

Local or Police Connected Burglar, Central Station Burglar, Household Burglar, and Electrically Actuated Transmitter. The D8128 is also suitable for fire *supervisory* applications.



Radionics

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