

Bravelink™ BBZ8BPS-1 Zone Input/Power Supply Supervision Card

Description

The Bravelink™ BBZ8BPS-1 Input Zone and Power Supply Supervision Option Card is a component of the Bravelink™ Bidirectional Amplifier (BDA) Monitoring system. It supervises the outputs of a BDA radio as well as its power supply. It also supervises the power supply of the Bravelink™ system.

Features

Each Bravelink™ BBZ8BPS-1 option card provides:

- ◆ Up to 8 configurable Style B (Class B) input zones can detect the state of form-A or form-C relay outputs that represent the status of BDA conditions, including its internal power supply and backup batteries
- ◆ Supervision of a PS-7A Intelligent Power Supply
 - An intelligent connection enables monitoring of numerous conditions, including: primary power, battery conditions, battery charging circuit, cabinet tamper and ground fault conditions on the BDA Buddy system.

Note: In addition to powering the Bravelink™, a PS-7A can provide battery-backed power to the bidirectional amplifier itself (if desired).

When multiple BDA radios are powered by additional PS-7A Intelligent Power Supplies, Bravelink™ BBZ8BPS-1 units may be employed to monitor all power supplies and batteries used by the entire life safety radio installation.

- ◆ Diagnostic LEDs to indicate the state of each monitoring circuit
- ◆ Ground Fault Monitoring
- ◆ Cabinet Tamper Monitoring
- ◆ Convenient DIN-Rail Mounting



Mounting and Installation

The Bravelink™ BBZ8BPS-1 clips on to a standard DIN mounting rail, along with other BDA Buddy option cards, installed within a NEMA-4/UL-50E enclosure. The Bravelink™ BBZ8BPS-1 connects to the Bravelink™ BBCPU-1 and other option cards using short CAT-6 cables with RJ-45 connectors on each end (included). All connections are supervised for integrity.

The input zone monitoring circuits are pre-configured to monitor the following BDA status conditions:

- ◆ BDA Fail
- ◆ Donor Antenna Disconnect
- ◆ Donor Antenna Signal Reception Supervision
- ◆ BDA AC Fail
- ◆ BDA Low Battery Capacity
- ◆ BDA Charger Fail
- ◆ BDA Battery Missing
- ◆ Backup Generator Active

Note: The power supply-related BDA monitoring circuits are used when the BDA provides its own dedicated power supply.

Each BDA monitoring circuit is supervised by use of a 15k-ohm end of line resistor that must be installed at the BDA's relay connections. An alternative zone configuration allows an additional 5k-ohm in-line resistor to be installed on the positive side of the circuit, where it leaves the Bravelink™ BBZ8BPS-1. This option allows for both open and short trouble conditions to be monitored in addition to the normal, active and open trouble conditions that the standard Style B circuit provides.

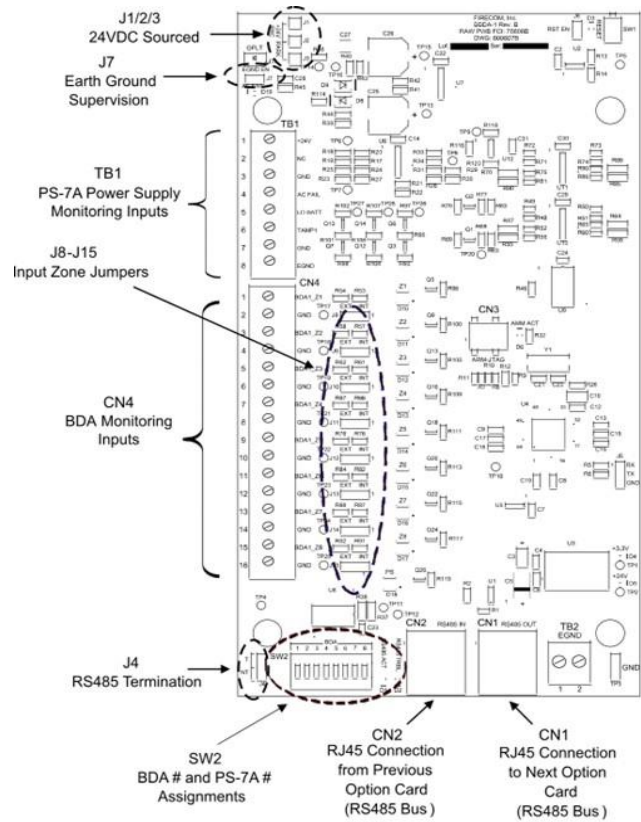
Each of the BDA monitoring circuits is current-limited and is monitored for ground fault conditions.

At least one PS-7A Intelligent Power Supply is used to power the BDA Buddy system, and that power supply is supervised on different inputs of the Bravelink™ BBZ8BPS-1 option card than a power supply provided separately with the BDA. (The system power supply can also power one BDA radio, if desired.)

When connected to a PS-7A, the Bravelink™ BBZ8BPS-1 shall detect and report the following status conditions:

- ◆ AC Fail
- ◆ Low Battery Capacity
- ◆ Charger Fail
- ◆ Battery Missing
- ◆ Battery Bad
- ◆ Power Supply Output Voltage Error
- ◆ Cabinet Tamper
- ◆ Ground Fault
- ◆ Charger Enabled/Disabled State

See Installation Guide P/N 79790 for wiring and setup details.



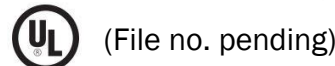
Electrical Specifications

Operating Voltage:	24V
Operating Current:	50mA
Zone Operating Voltage:	0-24VDC
Input Zone Voltage Ripple Rating:	400mV p-p
Input Zone Supervisory Current:	1mA Max.
Input Zone Alarm Current:	3mA Max.
Input Zone Maximum Capacitance:	10uF
Input Zone Maximum Resistance:	100 Ohms
Operating Temperature:	0 °C to 49 °C
Operating Relative Humidity Range:	0% to 93% @ 32 °C

Ordering Information

Model No.	Part No.	Description
BBZ8BPS-1	79183	8 Class B Zone and Power Supply Supervision Option Card

Approvals and Listings



It is our intention to keep product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice. For more information, contact FIRECOM, INC.

