D125B Powered Loop Interface Module

Features

- Powered Loop Interface Module
- Two separate powered sensor loops
- Suitable for 12 or 24VDC, 2-wire smoke detectors
- Suitable for 4-wire smoke detectors
- Up to 50 2-wire 12VDC glass break detectors
- Reports individual loop alarm
- Reports individual loop trouble and ground fault
- Manual reset of latching devices from panel
- Remote central station reset

Description

The Radionics D125B Powered Loop Interface Module is an accessory device for Radionics Fire Alarm Control/ Communicators. The D125B provides two separate NFPA Style A (Class B) 12 or 24VDC powered loops. The module supervises each of the loops for opens, shorts or ground faults.

Both loops can be powered with either 12 or 24VDC to connect compatible 2-wire detectors or other 2- or 4-wire devices such as retarded waterflow switches, manual stations, heat detectors or glass break detectors.

An auxiliary power supply is used in 24VDC applications, and provides power for the module and all devices connected to the two loops. The power supply is not provided with the unit. Any power supply installed must be UL listed for use with Radionics fire products.

Application

The D125B is suitable for connecting fire or burglary devices in commercial, industrial and institutional applications. The D125B is compatible with retarded waterflow switches, 2-wire and 4-wire smoke detectors, non-powered fire initiating devices and 2-wire burglary devices. Schools, offices, and health care facilities are typical commercial applications where the D125B may be specified.

Installation

The D125B Powered Loop Interface Module mounts in a Radionics enclosure using screws included with the unit. A D137 Mounting Bracket can be used to install additional modules, or when installing the D125B in an approved adjacent enclosure. Separate enclosures must be within 20 ft. (6.1 m) of the panel enclosure and connected by conduit.

The D125B requires an earth ground reference and a common reference with the control/communicator. The D125B provides a supervisory output terminal for each of its loops.

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All terminal designations are clearly marked on the module circuit board. Two 1.8k ohm EOL resistors are shipped with the unit to be installed after the last device on each loop.

The D125B shall be suitable for replacing Radionics D125 and D125A modules using the existing 1.5k ohm EOL resistor. Each D125B module shall support up to 25 Radionics 2-wire 12VDC smoke detectors per loop.

Operational Data

Each loop of the D125B is supervised by a 1.8k ohm EOL resistor installed after the last device. The module detects opens, shorts or ground faults on the loop circuit wiring.

Two supervisory output terminals on the D125B each connect to a zone or point terminal on the control/communicator. These output terminals are labeled A and B, and have internal 1k ohm resistance. An alarm on either module loop shorts the corresponding zone or point. A trouble on either module loop opens the corresponding zone or point.

The Radionics D130 Relay Module is used for 24VDC applications. Power to the relay coil is interrupted momentarily by using a panel command center. This drops power to all devices on both loops. See the Sensor Rest section in the operation and installation manual for the panel being used.

Non-powered initiating devices such as waterflow switches, manual stations and heat detectors are installed without the D130 Relay Module.

Specifications

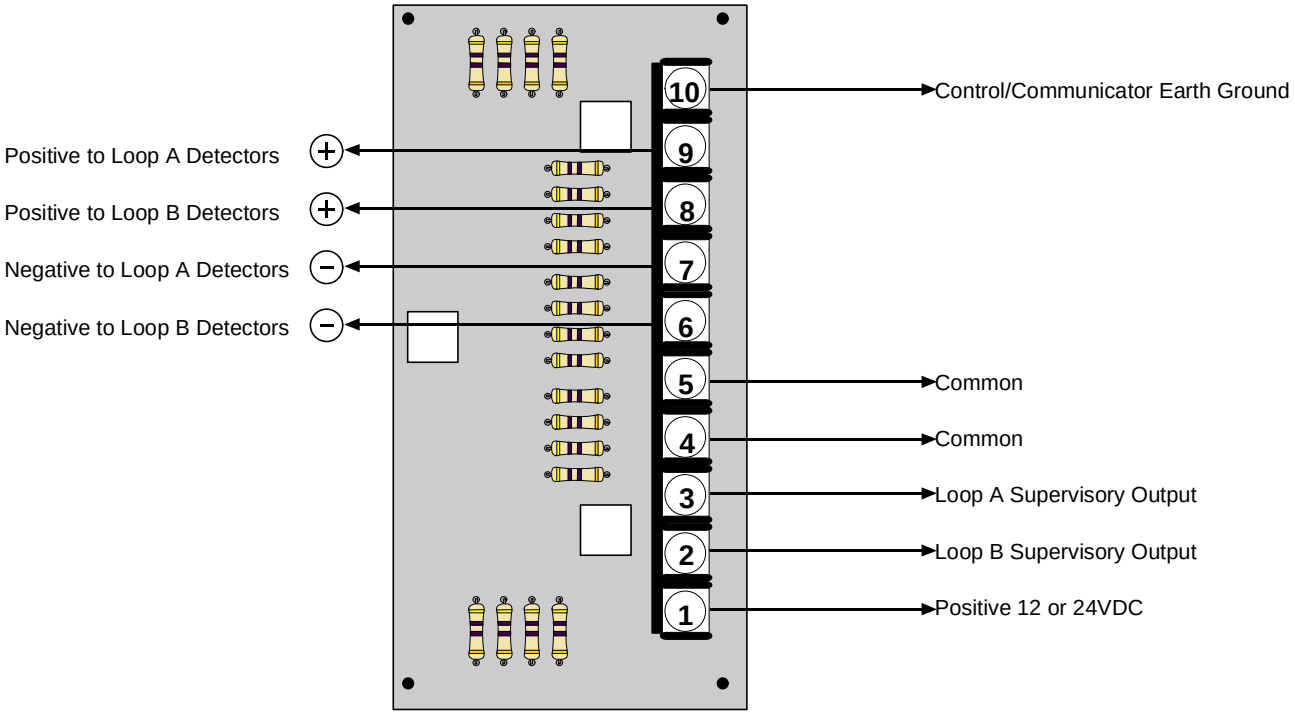
D125B Specification	Value
Operating Voltage	Nominal 12 or 24VDC supplied by control/communicator or UL listed power supply.
12V Operating Current	22mA min., 147mA max.
24V Operating Current	42mA min., 292mA max.
Dimensions	5.0 in. L x 3.0 in. W x .75 in. D (12.7 cm L x 7.6 cm W x 2 cm D)

Listings and Approvals

- UL listed
- NYC-MEA pending
- CSFM listed when used with the D7212, D7212B, D7412, D8112, D9112, D9112B and D9412 control panels.

Ordering Information

Model	Description
D125B	Powered Loop Interface Module
D130	Relay Module
D137	Mounting Bracket



Wiring the D125B Powered Loop Interface Module

ISO 9002 CERTIFICATE NO. A5137