

RE-314BI Isolator Base Installation Guide

Electrical Characteristics

Min Supply Voltage 17\/ Max Supply Voltage 28V DC. 37V Peak Nominal Supply Voltage 24V DC Quiescent Current at 24V 30 μΑ Leakage Current at 24V 2.0 mA when isolating Max Current (through loop) 1A continuous, 3A Peak 12.0V ~ 14.0V Isolating Voltage Maximum on resistance 0.2 Ohms Re-Connect Voltage 14.0V ~ 16.0V

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General

The Ravel Isolator Base (pulse Mode) senses and isolates short circuit faults on Ravel loops, is intended for use ith equipment using the Ravel Series.

Model No.: RE-314BI2 and RE-314BI4 Issue No.:20081218V11

The installation must be carried out such that the unit is not subjected to:

Exposure to risk of mechanical damage

Unauthorized modification or interference

Exposure to moisture, dust and foreign bodies

Exposure to temperatures exceeding the maximum ambient

Installation

- 1. Run the cables from the Ravel SLC loop into the base. Ensure that the terminal must be screwed tightly enough.
- 2. Loop + connects to the terminal 'IN+', Loop connects to terminal 'IN-';
- 3. 'IN+' connects to the next base or module as the Positive Input;
- 4. 'OUT-' connects to the next base or module as the Negative Input.

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Wiring

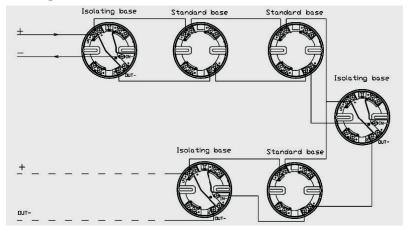


Figure 1 Class A Wiring
Note: An Isolator Base can afford maximum of 32 detectors.

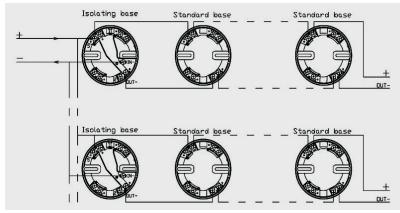


Figure 2 Class B Wiring

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Commissioning

Commission the fire detection system in accordance with local codes and the panel manufacture's instruction. With the system in the normal operating condition, apply short-circuit to the loop wiring at selected points between Isolator Bases. Verify that Isolator Bases function correctly.

LED Indicators

Power LED Illuminated red faintly when loop wiring is connect Fault LED Illuminated yellow when loop wiring is short-circuit

Trouble Shooting

Before investigating individual units for faults, It is important to check that the system wiring is fault free. Earth faults on the data loops or interface zone wiring may cause communication error. Many fault conditions are the result of simple wiring errors. All connections to the unit should be checked.

Fault Finding

Problem	Possible Cause
Power LED not illuminated	Isolator Base connected in reverse polarity
No supply on loop output	Incorrect isolator wiring
Isolator Base not isolate When loop shorted	Incorrect isolator wiring, High resistance in loop wire

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