

RE-314BI

FAULT ISOLATOR BASE

General

The Isolator Base is an automatic switch that isolates a part of the loop with bidirectional protection. The Isolator base should be spaced between groups of sensors or modules in a loop to protect the rest of the loop. If a short occurs between any two isolators, then both isolators immediately switch to an open state and isolate the devices between them. The remaining units on the loop continue to fully operate. LED indicator available on the circumference to the status of the base without opening the detector



Features

- Low Standby Current.
- Easy to install
- Standard base dimension.
- Bidirectional protection.
- Low standby current.

Specification

| Electrical Specification | |
|---|--|
| <i>Min Supply Voltage (Vmin)</i> | 17V |
| <i>Max Supply Voltage(Vmax)</i> | 28VDC, 37VPeak |
| <i>Nominal Supply Voltage(V_{nom})</i> | 24VDC |
| <i>Quiescent Current at 24V(I_c)</i> | 30μA |
| <i>Leakage Current at 24V(I_l)</i> | 2 mA when isolating |
| <i>Max Curent (through loop)(I_l)</i> | 1A continuous, 3APeak |
| <i>Isolating Voltage (V_{co})</i> | <14V |
| <i>Maximum on resistance(Z_c)</i> | 0.02Ω |
| <i>Re-connect Voltage(V_{oc})</i> | 14 ~ 16V |
| <i>Operating Temperature</i> | 0 – 49°C (32 – 120°F) |
| <i>Relative Humidity</i> | 93 ± 2% RH (non-condensing) at 32 ±2° C/90 ±3° F |
| <i>Dimensions</i> | 99 mm ø X 11mm H |

Terminal Diagram

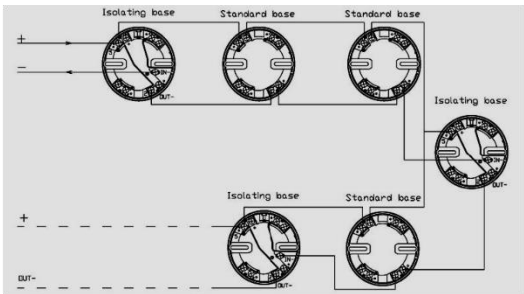


Figure 1 - Class A Wiring

Note: An Isolator Base can afford maximum of 32 detectors.

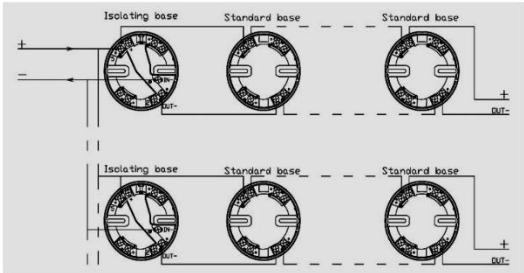


Figure 2 - Class B Wiring

Compatability Devices

| Model | Description |
|---------------|-------------|
| RE-317 Series | Detectors |

Ordering Information

| Model | Description |
|----------|---------------------|
| RE-314BI | Fault Isolator Base |

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