

Electrical Characteristics

Minimum line voltage	V_{min}	17V
Maximum line voltage	V_{max}	28V DC, 37V Peak
Nominal line voltage	V_{nom}	24V DC
Maximum Quiescent Current at 24V	I_{Qmax}	30 μ A
Maximum continuous line current	I_{Cmax}	0.5A
Maximum switching current	I_{Smax}	3A
Maximum Leakage current in isolator	I_L	45~60mA
Pulsed		1.2~2.0mA
Continuous		
Maximum switch resistance	Z_{Cmax}	225m Ω
Isolating Voltage	V_{SO}	12.0V~14.0V
Reconnecting voltage	V_{SC}	13.0~15.0V
Pulsed		16.0~27.0V
Continuous		
De-isolation Impedence Limit	Z_{SC}	180~330 Ω

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NB760 Isolating Base Installation Guide

General

The WizMart Isolating Base (Pulse Mode) senses and isolates short circuit faults on WizMart loops, is intended for use with equipment using the WizMart Series.

Model No.: NB760-2 and NB760-4.

Issue No.: 20170105V16

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 WizPro or other loop into the Base. Ensure that the terminals 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;
'OUT -' connects to the next Base or Module as the Negative Input.

Wiring

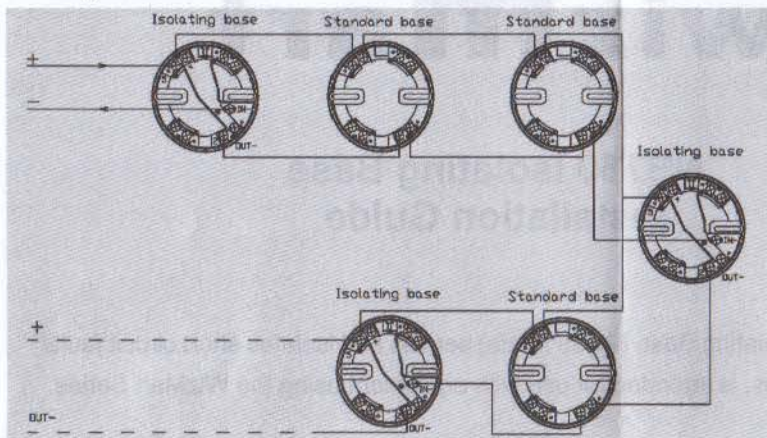


Figure 1 Class A Wiring

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

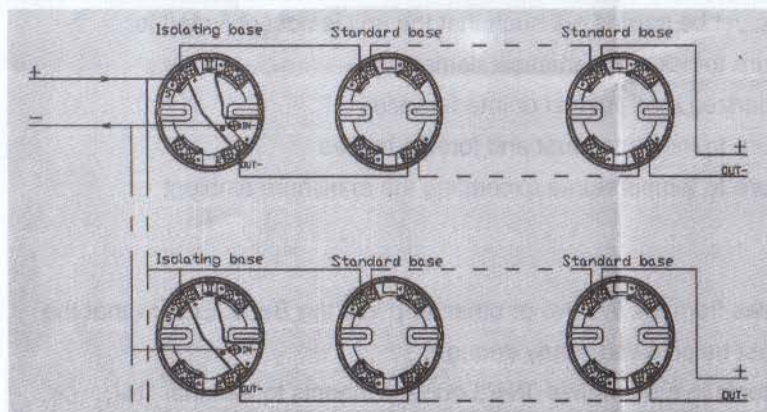


Figure 2 Class B Wiring

Commissioning

Commission the fire detection system in accordance with local codes and the panel manufacturer'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

Troubleshooting

Before investigating individual units for faults, It is important to check that the system wiring is fault free. Earth faults on 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
Power LED not illuminated	Isolator Base connected in reverse polarity
Loop short-circuit, isolator 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.