

# Intelligent Relay and Isolator Bases



A Division of Pittway  
3825 Ohio Avenue, St. Charles, IL 60174  
1-800-SENSOR2 (736-7672), Fax 630-377-6495  
<http://www.systemsensor.com>

## Models Available

**B224RB Relay Base**  
**B524RB Relay Base**  
**B224BI Isolator Base**  
**B524BI Isolator Base**



## Features

- Easy plug-in of detector heads to bases
- Terminal block wiring
- Rugged industrial construction
- Designed for direct surface or electrical box mounting
- Relay bases provide:
  - Form C contact for control of auxiliary functions
  - Activation from the sensor head to remote annunciator output
  - Suitability for patient room annunciation, elevator recall, and pilot duty on fan shutdown and damper control

- Isolator bases provide:
  - Isolation of short circuit
  - Automatic restore when short circuit is corrected
  - Suitability for NFPA 72, Style 7 applications

**The System Sensor** intelligent relay and isolator bases are designed for use with 200 and 500 Series plug-in detectors. The complete line of relay and isolator bases is designed for reduced installation costs and optimum performance.

## Specifications

Diameter:	6.2" (157 mm)
Height	
B224RB/BI:	1.2" (31 mm)
B524RB/BI:	1.4" (36 mm)
Weight:	5.76 oz.
Mounting:	4" square box with or without plaster ring, or 3 1/2" or 4" octagonal box, min. depth 1.5" (13 mm)
Wiring Gauge:	12–22 AWG, twisted pair recommended

Operating Temperature Range:	32° F to 120° F (0° C to 49° C)
Operating Humidity Range:	10% to 93% relative humidity (noncondensing)



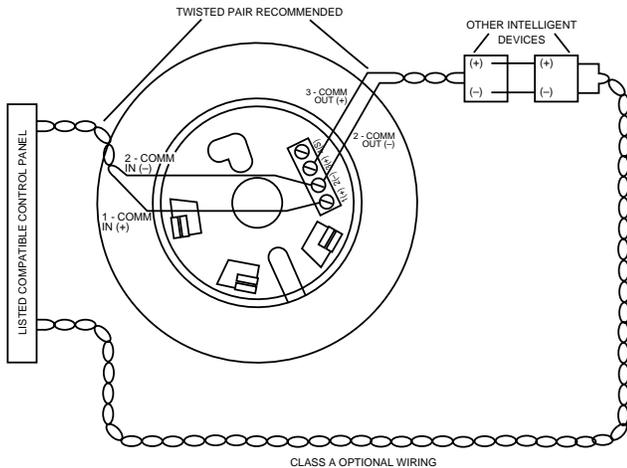
**MEA**  
approved

# Electrical Ratings

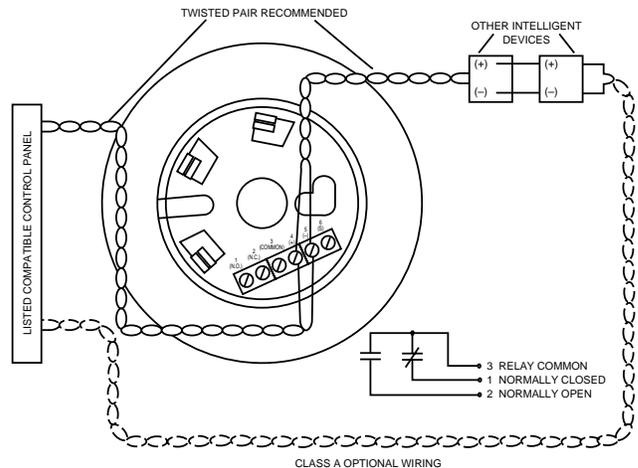
Operating Voltage: 15 to 32 VDC  
 Standby Ratings: < 500  $\mu$ A maximum @ 24 VDC  
 Set Time: 4 seconds minimum,  
 20 seconds maximum  
 Reset Time: 1 second minimum,  
 8 seconds maximum

Relay Characteristics (relay base only)  
 Coil: 2 coil latching  
 Contact Type: 1 Form C  
 Contact Relay  
 Resistive: 2 A @ 30 VDC  
 Inductive: 0.3 A @ 110 VDC  
 (with .35 PF or greater)  
 0.3 A @ 120 VAC  
 (with .35 PF or greater)  
 1.0 A @ 30 VDC  
 (with .6 PF or greater)

## B200/B500 Series Wiring Guide



**Isolator Base**



**Relay Base**

## Ordering Information

### Smoke Detector

Base		1251	1551	2251	2551	2551T	5551	5551R
Relay	B224RB	●		●				
	B524RB		●		●	●	●	●
Isolator	B224BI	●		●				
	B524BI		●		●	●	●	●

## System Sensor Worldwide Manufacturing & Distribution

**In Canada:**  
 System Sensor Canada, A Division  
 of Pittway Corporation of Canada  
 6581 Kitimat Road, Unit #7  
 Mississauga, Ontario  
 Canada L5N 3T5  
 Telephone: 905-812-0767  
 Fax: 905-812-0771

**In the United Kingdom:**  
 System Sensor Europe, Ltd.  
 A Member of Pittway Corporation  
 Horsham Gates III, North St.  
 Horsham, West Sussex  
 RH13 5PJ, United Kingdom  
 Telephone: 44-1403-276500  
 Fax: 44-1403-276501

**In India:**  
 System Sensor India  
 A Division of Pittway  
 A-204 Maheshwari Nagar  
 Orkay Mills Lane  
 Andheri East, Mumbai 400093  
 Telefax: 91-022-8202564

**In the Far East:**  
 System Sensor Far East  
 A Division of Pittway  
 Rm 903, Tower A, New Mandarin  
 Plaza, 14 Science Museum Road  
 TST East, Kowloon, Hong Kong  
 Telephone: 852-2191-9003  
 Fax: 852-2736-6580