

1012B/2012B Direct-Wire Smoke Detector with Built-in Relay and Horn



A Division of Pittway
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<http://www.systemsensor.com>



Models Available

- 1012B Ionization Detector
- 2012B Photoelectronic Detector

Features

- 12 VDC operation, 4-wire
- Built-in 85dB electronic horn
- Built-in relay can be connected to lights, bells, horns, remote annunciator, or control panel
- Interconnectable up to 12 units
- Visual alarm and power indicator
- Ceiling white color
- Built-in 8 second delay on relay output
- Built-in test switch
- Twist-on mounting bracket with tamper option for easy installation

- Improved chamber design for greater stability
- Same housing design for both ion and photo models
- 3-year warranty

Compact, attractive, and easy to install, System Sensor 1012B and 2012B detectors are designed to respond to a broad range of fires while providing maximum stability. Both units in this series feature low-voltage wiring, allowing you to choose the detector that best suits your application.

Specifications

Size: 1.75" h × 5.5" dia.
(44.5 mm h × 140 mm dia.)

Weight: 5.3 oz. (150 grams)

Humidity Range: 10% to 93% RH, noncondensing

Smoke Detector Spacing:
On smooth ceilings (as defined in NFPA 72), spacing of 30 feet (900 sq. ft.) may be used as a guideline. Other spacing may be used depending on ceiling height, high air movements, and other conditions or response requirements.

Electrical Ratings

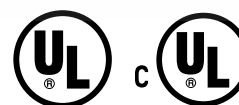
Operating Voltage: 12 VDC (nominal)

Relay Contact Rating: 1 Form A, .5 A @ 30 VDC

Standby Current: 50 μA maximum average

Alarm Current: 20 mA maximum average @ 12 VDC

Temperature Range: 32° to 120°F (0° to 50°C)



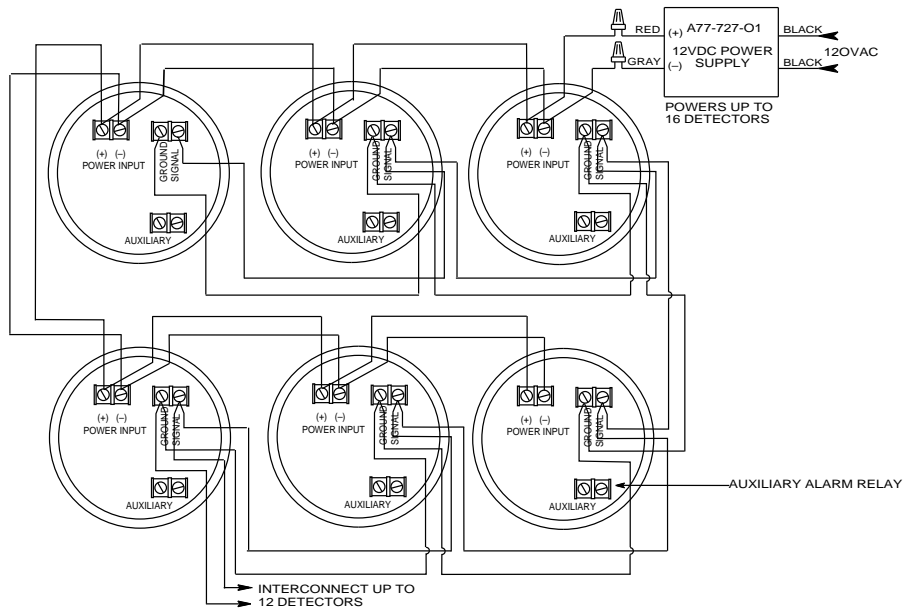
MEA
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General Description

System Sensor 1012B ionization and 2012B photoelectric detectors are designed primarily for applications where low-voltage Class 2 wiring may be used. These detectors are self-resetting and offer an 85dB alarm horn. An external push button provides a test of the detectors' alarm function. Up to 12 units can be interconnected so that if one detector alarms, all detectors alarm. A normally

open auxiliary alarm relay is available for controlling external functions. A visible LED indicator flashes once every 40 seconds in standby and rapidly in alarm when detecting smoke. The detectors offer low-voltage operation and a tamper-proof feature. Screw terminals and a mounting bracket are provided for easy installation.



WIRE GAUGE	1 UNIT	2 UNITS	3 UNITS	4 UNITS	5 UNITS	6 UNITS	7 UNITS	8 UNITS	9 UNITS	10 UNITS	11 UNITS	12 UNITS
14AWG	5000	2970	1980	1485	1188	990	848	742	660	594	540	495
16AWG	3735	1867	1245	933	747	622	533	466	415	373	339	311
18AWG	2349	1174	783	587	469	391	335	293	261	234	213	195

MAXIMUM POWER BUS LENGTH IN FEET, GIVEN NUMBER OF UNITS (MAXIMUM PER BUS) AND WIRE SIZE.

MAXIMUM INTERCONNECT BUS LENGTH: 5,000 FT. NO. 18AWG OR LARGER DUAL CONDUCTOR CABLE. ALL WIRING MUST CONFORM TO LOCAL ELECTRICAL CODES. RELAY CONTACTS RATING: 0.5A 30VDC; 0.5A 30VAC

1012B/2012B Wiring Diagram

Ordering Information

Part No.	Description	A77-727-01 12 VDC power supply, mounts to a 4" square box, 2 1/8" deep
1012B	Ionization smoke detector with relay, 12 VDC, multiple station	
2012B	Photoelectric smoke detector with relay, 12 VDC, multiple station	

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