

FSA-210/410 Series

Two- & Four-Wire Photoelectric Smoke Detectors



Product Features:

- ▶ Automatic drift compensation
- ▶ Built-in, dual-sensor heat detector (option)
- ▶ Built-in 85 dB horn (option)
- ▶ Easy-maintenance removable smoke chamber
- ▶ Interconnectable using PRM-2W/4W polarity reversal modules
- ▶ Non-contact sensitivity testing with new FSD-100 handheld test meter
- ▶ Low-profile design
- ▶ Local test button
- ▶ UL/ULC/CSFM/MEA/EN listed for commercial and residential applications

FSA-210/410



Designed to provide reliable smoke or fire detection, the FSA-210 (two-wire) and FSA-410 (four-wire) photoelectric smoke detectors incorporate a low-profile design and features that help reduce false alarms and provide consistent smoke detection. Both smoke detectors offer a built-in alarm horn, integral dual-sensor heat detection, automatic drift compensation and an easy-maintenance removable chamber. The FSA-210/410 are listed for commercial and residential applications, and are compatible with all DSC security panels. Precise and quick sensitivity testing is easily accomplished with the new FSD-100 handheld test meter.



www.dsc.com

1-888-888-7838

FSA-210/410 Series

Two- & Four-Wire Photoelectric Smoke Detectors

False Alarm Reduction

DSC is committed to reducing false alarms and has integrated a number of features into the FSA-210/410 to provide reliable detection. One important feature is drift compensation, which provides a constant level of sensitivity performance for extended operation. As dust accumulates in a detector this feature adjusts to maintain the original factory-set sensitivity, thereby minimizing the potential for false alarms. If the detector reaches its limit of compensation, it will indicate a trouble condition well before the sensitivity increases to a level where false alarms will be generated.

Interconnectable

The FSA-210/410 smoke detectors with integral horns can be interconnected with the PRM-2W (two-wire) or PRM-4W (four-wire) polarity reversal modules. Mounted inside the control panel or externally in its own plastic enclosure, the PRM-2W/4W, upon initiation of a fire alarm, receives a signal from the control panel to reverse the voltage polarity to the smoke detector. By reversing the polarity, the integral horns of all interconnected smoke detectors will sound. All horns will remain synchronized in the temporal pattern for a minimum of three minutes.

Non-Contact Sensitivity Testing

Precise and quick sensitivity testing is easily accomplished with DSC's new non-contact FSD-100 handheld test meter. Powered by a standard 9-volt alkaline battery and small enough to fit inside a shirt pocket, the FSD-100 holds 500 readings that can be downloaded to any computer. To initiate a reading, a technician simply holds the FSD-100 near a DSC smoke detector and activates the detector's test button.



Compatibility

The FSA-210/410 series of photoelectric smoke detectors are compatible with all DSC control panels.

Specifications

MECHANICAL

Diameter 5.8" (147 mm)
 Height 2.077" (52.8 mm)
 Color White
 Mounting Surface mount with screws
 Bracket Twist on/off either locking or non-locking

SENSITIVITY

Nominal: 3.0% +/- 0.8% obscuration/ft. (UL)
 Nominal: 2.0% +/- 0.5% obscuration/ft. (ULC & EN)

HEAT SENSOR

Alarm: Fixed-temperature 135° F (57.2° C)

ENVIRONMENTAL

Operating Environment 32° to 120° F
 (0° to 49° C)
 Relative Humidity 5% to 93%
 RF Immunity 20 volts/m
 0-1000 MHz

Ordering Information:

2-Wire*

FSA-210(x) 2-Wire Photoelectric Smoke Detector
 FSA-210(x)T 2-Wire Photoelectric Smoke Detector w/ Heat Detector
 FSA-210(x)ST 2-Wire Photoelectric Smoke Detector w/ Integral Sounder & Heat Detector
 FSA-210(x)RT 2-Wire Photoelectric Smoke Detector w/ Aux. Relay & Heat Detector

4-Wire*

FSA-410(x) 4-Wire Photoelectric Smoke Detector
 FSA-410(x)T 4-Wire Photoelectric Smoke Detector w/ Heat Detector
 FSA-410(x)RT 4-Wire Photoelectric Smoke Detector w/ Aux. Relay & Heat Detector
 FSA-410(x)S 4-Wire Photoelectric Smoke Detector w/ Integral Sounder
 FSA-410(x)ST 4-Wire Photoelectric Smoke Detector w/ Integral Sounder & Heat Detector
 FSA-410(x)RST 4-Wire Photoelectric Smoke Detector w/ Integral Sounder, Aux. Relay & Heat Detector

Accessories

FSD-100 Sensitivity Test Meter
 FSD-101 Broom Handle Adapter for FSD-100
 PRM-2W Polarity Reversal Module, PCB for Panel Mounting (2-Wire Interconnect)
 PRM-2WC Polarity Reversal Module in Plastic Case (2-Wire Interconnect)
 PRM-4W Polarity Reversal Module, PCB for Panel Mounting (4-Wire Interconnect)
 PRM-4WC Polarity Reversal Module in Plastic Case (4-Wire Interconnect)
 RM-2 End-of-Line Power Supervisory Relay (4-Wire Detectors Only)

* Legend

(x) = "A" Canadian Model Number
 (x) = "B" U.S. Model Number
 (x) = "C" European Model Number



For product information
www.dsc.com

Product specifications and availability subject to change without notice. Certain product names mentioned herein may be trade names and/or registered trademarks of other companies.
 ©2004 2004-08

Distributed by:

