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 control panels. Precise and quick sensitivity testing is easily accomplished with the new FSD-100 handheld test meter.

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

Contact your DSC distributor
www.dsc.com
1-888-888-7838

DSC®

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 the non-contact FSD-100 handheld test meter. Powered by a standard 9 V 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 V/m
　　　　　　　　　　　　　　　　0-1000 MHz

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

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)

P/N 29005372 R004   Printed in Canada

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