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SBM CDR Description : Equipment Index & Data Sheets

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Package Description : Gaseous Fire Fighting System Package

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For Addressable Signal Module

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Notes

ADDRESSABLE SIGNAL MODULE



FEATURES

- Full-digital communications
- Addressable notification-appliance circuit (NAC)
- Class A or Class B wiring on NAC
- Field-programmable for 24-VDC notification appliances or 25 V_{rms} speakers
- Supervises power for notification appliances
- UL Listed
- FM Approved #3005511
- CSFM Approved

DESCRIPTION

The SmartOne® Addressable Signal Module (ASM) is a notification-appliance circuit that connects to the signaling line circuit of a compatible control unit. The ASM is an intelligent field device that contains its own microprocessor, memory and the necessary electronics to provide either 24 VDC for conventional notification-appliances or 25 V_{rms} for speakers.

Operation can be changed on-site using on-board switches and jumpers.

PROGRAMMING

Each ASM can be configured to support speakers or audible-visual notification appliances, and Class B or Class A operation. The module can also be programmed to support water flow, walk test, and drill modes. As with any SmartOne device, addressing can be implemented from the hand-held programmer (P/N 74-227) or the control panel keypad/menu. The Module can also be alarm tested upon command from the control unit. Module faults are individually reported to compatible control units by module address, fault type, and fault-location message.

SUPERVISION

The module provides continuous internal supervision of:

- Alarm contact position
- Communications with the control unit
- Internal power supply
- Connections to external power supply for notification-appliances

Memory status module supervision prevents switching audible or audio power into a shorted circuit.

STATUS LED

A status LED is mounted on the unit.



SPECIFICATIONS

OUTPUT CIRCUIT CHARACTERISTICS

Output Current Rating:

- 2.0 A max. @ 30 VDC
- 20 W @ 70.7 V_{rms}
- 20 W @ 25.0 V_{rms}

MAXIMUM LINE RESISTANCES (#12 AWG WIRE)

Load (amps)	Resistance (ohms)	Length (ft.)
0.2	20.0	12.0K
0.5	8.0	5.0K
1.0	4.0	2.5K
1.5	2.7	1.6K
2.0	2.0	1.2K

Mounting

- A 4-inch, 2-1/8-inch deep (for #18 AWG) or 4-11/16-inch, 2-1/8-inch deep (for #12 AWG) standard, square electrical box is used. Wiring specifications are recommended as minimums for ease of wiring. See National Electrical Code (370).

Shipping Weight

- 10.5oz (298g)

Current Draw

- 500 uA in standby or alarm

Operating Voltage Range

- 16.5 to 27.5 VDC
- 24 VDC nominal

Notification-Appliance Circuit End Of Line Resistor

- 4.7K ohms, 0.5 W

Notification-Appliance Circuit Output

- 24 VDC, 2 A (max.), power limited, reverse polarity supervised

Audio Circuit Output

- 25 V_{rms}, 20 W (max.), non-power limited, reverse polarity supervised

Power Supply Trouble Circuit End Of Line Resistor

- 4.7Kohms, 0.5 W

Operating Temperature Range

- -31° F to 151° F, (-35° C to 66°C)

Operating Humidity Range

- 0 to 95%, non-condensing

Installation:

- The unit can be mounted in a 4-inch x 4-inch electrical box.