

ADDRESSABLE SIGNAL MODULE

Effective: August 2000

SmartOne™

74.234

FEATURES

- Full-digital communications
- Addressable notification-appliance circuit (NAC)
- Class A, Style Z or Class B, Style Y wiring
- Field-configurable for 24-VDC notification appliances or 25/70.7 V_{rms} speakers
- Status indicator
- Supervises power for notification appliances
- UL Listed / FM 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, 4K of memory and the necessary electronics to provide either 24 VDC for conventional notification-appliances or 25/70.7V_{rms} for speakers.

PROGRAMMING

Each ASM can be configured to support speakers or audible-visual notification appliances, and Class B, Style Y or Class A, Style Z 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 74-100013-001) 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.

OPERATION

Once installed and configured, the ASM requires little or no maintenance. Operation can be changed on site using on-board switches and jumpers.

SUPERVISION

The ASM provides a fully supervised notification-appliance circuit for connection to either 24 VDC audible/visual appliances or 25/70.7 V_{rms} speakers. 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 and indicates the module's status by a two-second (alarm) or nine-second (normal) flash interval. A trouble condition stops the flashing.

INSTALLATION

The unit can be mounted in a 4" x 4" electrical box. Terminal connections support wiring from #18 AWG (1.0 mm²) to #12 AWG (4.0 mm²). The size of the wires used will determine electrical box depth.

The depth of the electrical box is determined per Article 370 of the National Electrical Code. ASM volume is 8.94 cubic-inches. For ease of wiring, especially with solid wire, an extension ring must be used.

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 |

TECHNICAL INFORMATION

PHYSICAL DESCRIPTION

- Single printed circuit board secured to a universal plate with insulator

MOUNTING

- A 4", 2-1/8" deep (for #18 AWG) or 4-11/16", 2-1/8" 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).

CONSTRUCTION

- High impact polymer housing with 16 gauge mounting bracket

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

- 47K ohms, 0.5 W

NOTIFICATION-APPLIANCE CIRCUIT OUTPUT

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

AUDIO CIRCUIT OUTPUT

- 25 or 70.7 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

ORDERING INFORMATION

ADDRESSABLE SIGNAL MODULE

- 70-200200-001

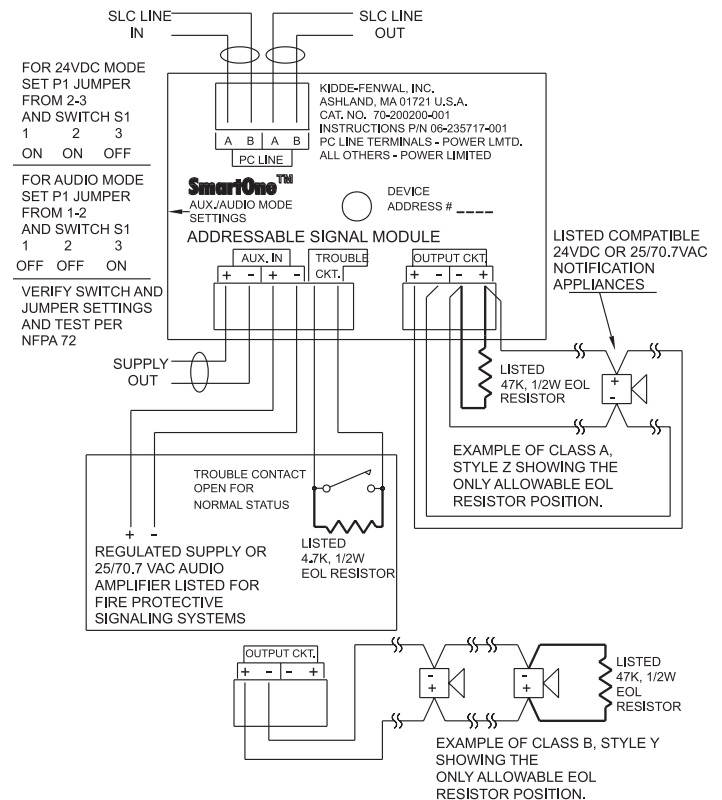
FRONT COVER PLATE (PROVIDED WITH MODULE)

- 06-235714-001

INTERNAL INSULATOR (PROVIDED WITH MODULE)

- 06-235714-001

WIRING DIAGRAM



Refer to installation instructions (P/N 06-235717-001) for additional information

SmartOne™

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