SmartOne®
Addressable Contact Input Device

Kidde Fire Systems

Effective: May 2020

K-76-701

FEATURES

- ***Monitors N.O. or N.C. Unpowered Contacts***
- ***Full Digital Communications***
- ***Remote LED Output***
- ***Alarm Test from Control Unit Keypad***
- ***Class B Initiating Device Circuit***
- ***Maximum 100 Ohm Loop Resistance (both conductors)***
- ***UL Listed, ULC Listed***
- ***FM Approved***

DESCRIPTION

The SmartOne® Addressable Contact Input Device (AI) is an intelligent field device with its own microprocessor, memory and electronics necessary to interface N.O. or N.C. unpowered contacts to Kidde® intelligent control units. All of the electronics are contained in a high-impact polymer case, creating a very small and durable device for installation. A silicone-free version is available for applications where silicone is not desired.

Two types of AI's are available: an AI/NC for interfacing to normally-closed devices and an AI/NO for interfacing to normally-open devices. The AI may be located up to 3,500 feet from the monitored device with #18 AWG wiring. An end-of-line-resistor is required for supervision of the wiring to the device.

FIELD PROGRAMMING

System address, owner location message and reporting type are programmable via the compatible control unit configuration software program. The system address is a 3-digit number that uniquely identifies each device. The owner location message is a 40-character, alpha numeric message that describes the location of the device. The reporting type is assigned to the AI depending on the functionality of the device being monitored.

SUPERVISION

The AI continuously monitors the integrity of the following:

- Continuity of supervised wiring
- Power/Communications circuit voltage
- Internal power supply
- Memory data
- Faulty entering of data into AI memory

STATUS LED

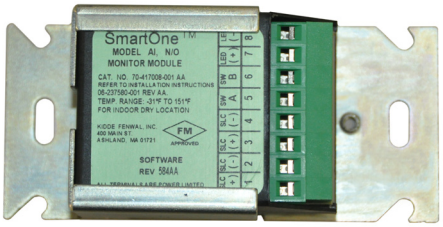
A remote status LED may be connected to the AI.

ALARM TEST

Any or all AIs can be tested by command from the compatible control unit. Results of the test may be printed.

ORDERING INFORMATION

Addressable Contact Input Device N.O	70-417008-001
Addressable Contact Input Device N.O, non-silicone	70-417018-001
Addressable Contact Input Device N.C.	70-417008-002
Package of 10 End-of-Line Resistors	70-411001-005



SPECIFICATIONS

IDC Wiring Style: Wired as NFPA 72 Class B

Input Voltage: 24 VDC nominal

Standby Current: 580 µA Max

Alarm Current: 580 µA Max

Max. Circuit Resistance: 100 Ohm (50 Ohm to conductor)

Operating Environment: -31 to 151°F (-35 to 66°C) at 0 to 95% RH

LED Pulse Modes:

Normal: 9 second interval
Trouble: LED is off
Alarm: 2 second interval

Acceptable Wire Size: 14, 16, 18 AWG

The AI can be mounted in a North American 2-1/2-in. (64 mm) deep, 1-gang box or standard 4-in. square box, 1-1/2-in. (38 mm) deep with cover.

COMPATIBLE CONTROL UNITS

Fire Alarm Control Unit (FACU) Type	Current Product	Legacy Product
Single Loop	ARIES®-SLX	ARIES FenwalNET™ 6000 MICRO SLX PEGAsys™* FenwalNET 2000*
Multiple Loop	ARIES®-MLX	ARIES NET*Link* FenwalNET 8000-ML MICRO MLX PEGAsys* FenwalNET 2000*

* FACUs running software revision 82.4 are compatibility-tested but not agency listed with the device(s) in this data sheet.

EXPORT INFORMATION (USA)
Jurisdiction: EAR
US ECCN: EAR99
This document contains technical data subject to the EAR.

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