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DF-51339 E-300

MS-9200 Addressable Modules

Section: Addressable Devices



CS68
(non "A" suffix)



CS68
("A" suffix only)



California
State Fire
Marshal
7300-0075:159
(M300, M301, I300, C304)
7300-0075:162 (M302)

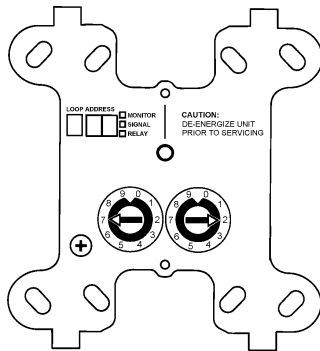
MEA

3-94-E (M300, M301, I300)
16-94-E (M302)
326-94-E (C304)

C304 CONTROL MODULE

This module has been replaced with modules CMF-300 and CRF-300, detailed in data sheet DF-52130.

The Fire-Lite C304 Control Module is used with the MS-9200 to provide a Style D (Class A) or Style B (Class B) Notification Appliance (Signal) Circuit (NAC). Alternately, the C304 may be converted to an addressable Form-C relay by removing a break off tab. The C304 may be programmed to operate dry contacts for door holders, Air Handling Unit shutdown, etc.



FEATURES

- Internal circuitry and relay powered directly by two-wire SLC loop. NAC configuration requires second loop for notification appliance power.
- Integral LED blinks each time it communicates with the MS-9200.
- Mounts in standard 4" square (2-1/8" deep) junction box.
- Direct-dial entry of Decade address (01-99).

SPECIFICATIONS

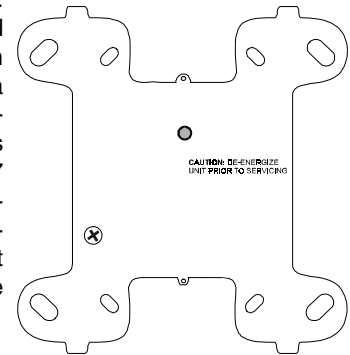
- **Operating voltage:** 15-28 VDC (Peak).
- **Maximum current in alarm:** refer to the MS-9200 Technical Manual.
- **Standby current:** 400 µA maximum.
- **Contact rating:**
 - 2.0 amps @ 30 VDC (resistive)
 - 0.6 amp @ 30 VDC (inductive, 0.35 PF)
 - 0.3 amps @ 110 VAC (0.35 PF)
 - 0.6 amps @ 30 VDC (inductive, 0.35 PF)
- **Temperature range:** 32°F to 120°F (0°C to 49°C).
- **Relative humidity:** 10% to 93%.
- **Weight:** 150 grams (5 oz.).

PRODUCT LINE INFORMATION

- C304** Addressable Control Module.
- C304A** Addressable Control Module, ULC listed.
- SMB500** Optional surface-mount backbox.

I300 FAULT ISOLATOR MODULE

The Fire-Lite I300 Fault Isolator Module is used with the MS-9200 to protect the system against wire-to-wire short circuits on the SLC loop. The I300 should be placed between each device on the SLC loop, to isolate a short-circuit problem between the modules. It is required for true Style 7 operation so that other devices can continue to operate normally in the event of a short-circuit on the SLC.



FEATURES

- Powered by SLC loop directly, no external power required.
- Mounts in standard 4-inch square (2-1/8" deep) junction boxes.
- Integral LED blinks to indicate normal condition. Illuminates steady when short circuit condition is detected.
- High noise (EMF/RFI) immunity.

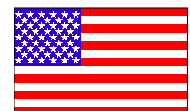
SPECIFICATIONS

- **Operating voltage:** 15-28 VDC (peak).
- **Maximum current upon activation due to short circuit:** refer to the MS-9200 Technical Manual.
- **Standby current:** 450 µA maximum; I300 is not isolating – relay closed.
- **Temperature range:** 32°F to 120°F (0°C to 49°C).
- **Relative humidity:** 10% to 93%.
- **Weight:** 150 grams (5 oz.).

PRODUCT LINE INFORMATION

- I300** Isolator Module.
- I300A** Isolator Module, ULC listed.
- SMB500** Optional surface-mount backbox.

This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice. For more information, contact Fire-Lite Alarms, One Fire-Lite Place, Northford, Connecticut 06472. Phone: (800) 627-3473, Toll Free FAX: (877) 699-4105, FAX Back: (888) 388-3299.



Made in the U.S.A.

MS-9200 Monitor Modules

COMMON FEATURES

- Built-in type identification automatically identifies device as a monitor module to the control panel.
- High noise (EMI/RFI) immunity.
- LED flashes during normal operation and latches on in alarm. **NOTE:** M301 Mini-Monitor Module does not include LED.
- Two rotary switches for direct-dial entry of Decade address (01-99).

NOTE: The M300, M301 and M302 modules have been replaced with modules MMF-300, MMF-301 and MMF-302 respectively. Please see data sheet DF-52121 for a description of the MMF-300 series modules.

M300

Monitor Module

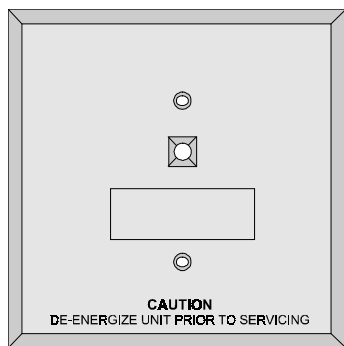
The Fire•Lite M300 Monitor Module is used with the MS-9200 to monitor a single Initiating Device Circuit (IDC) of normally-open contact devices. It can be used to monitor a zone of four-wire smoke detectors, manual fire alarm pull stations, waterflow devices, or other normally open dry-contact alarm activation devices. The monitored circuit may be wired as an NFPA Style B (Class B) or Style D (Class D) Initiating Device Circuit.

FEATURES

- Terminals with SEMS screws and clamping plates for ease of wiring.
- Built-in magnetic alarm test switch.
- Mounts in standard 4" square (2-1/8" deep) junction boxes.

PRODUCT LINE

M300	Contact device monitor module.
M300A	Contact device monitor module, ULC listed.
M02-04-00	Alarm Test Magnet.
SMB500	Optional surface-mount backbox.



Face plate for M300, M302, C300, and I300

M301

Mini-Monitor Module

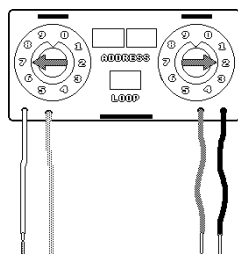
Though the Fire•Lite M301 can be used to monitor an entire Class B initiating circuit, it is ideally suited for monitoring single N/O contact devices. The M301 is small enough to fit inside a single-gang junction box behind the device being monitored. Its small size and light weight allow it to be installed without the need to be rigidly mounted. It can be used to monitor a single device or a zone of four-wire smoke detectors, manual fire alarm pull stations, waterflow devices (per local authority) or other normally-open, dry-contact devices. It may also be used to monitor normally-open supervisory devices with special supervisory indication at the control panel. The monitored circuit/device is wired as an NFPA Style B (Class B) Initiating Device Circuit.

FEATURES

- Compact size; only 2.75" [70 mm] high x 1.30" [33 mm] wide x 0.50" [12.7 mm] deep.
- Tinned, stripped leads for wiring ease.
- Class B (Style B) IDC **only**.
- Capable of mounting behind monitored device in single-gang box.

PRODUCT LINE

M301	Contact device mini-monitor module.
M301A	Contact device mini-monitor module, ULC listed.



To a 2-wire Class-B initiating circuit

To MS-9200 Addressable Loop

M302

Two-wire Conventional Smoke Detector Monitor Module

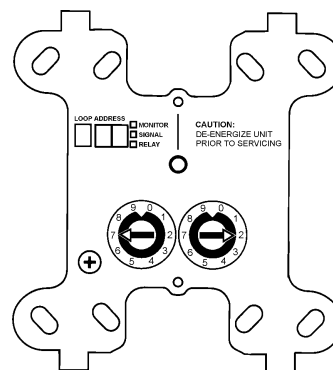
The Fire•Lite M302 Monitor Module is used with the MS-9200 to monitor a single Initiating Device Circuit (IDC) of compatible two-wire smoke detectors. The monitored circuit may be wired as an NFPA Style B (Class B) or Style D (Class A) Initiating Device Circuit. Requires auxiliary/external resettable 24VDC power.

FEATURES

- Supports compatible two-wire smoke detectors.
- Supervises IDC wiring and connection of external power source.
- Built-in magnetic alarm test switch.
- Mounts in standard 4" square (2-1/8" deep) junction boxes.

PRODUCT LINE

M302	Two-wire detector monitor module.
M302A	Two-wire detector monitor module, ULC listed.
M02-04-00	Alarm Test Magnet.
SMB500	Optional surface-mount backbox.



M300 and M302

Specifications

	M300	M301	M302
Operating voltage:	15 - 28VDC (peak)	15 - 28VDC (peak)	15 - 28VDC (peak)
Maximum current in alarm:	see MS-9200 Technical Manual	see MS-9200 Technical Manual	90 mA
Standby current:	400 A maximum	400 A maximum	300 A max. (Style D, 1.3 mA)
Temperature range:	32 F to 120 F (0 C to 49 C)	32 F to 120 F (0 C to 49 C)	32 F to 120 F (0 C to 49 C)
Relative humidity:	10% to 93%	10% to 93%	10% to 93%
Weight:	150 grams (5 oz.)	150 grams (5 oz.)	150 grams (5 oz.)
EOL resistor value:	47 K ohm	47 K ohm	3.9 K ohm
IDC loop length:	2,500 feet (7.62 km) maximum	2,500 feet (7.62 km) maximum	2,500 feet (7.62 km) maximum
IDC loop resistance:	40 ohms maximum	20 ohms maximum	25 ohms maximum