



## FIRE ALARM SYSTEMS (2020 MSFC)

### Code Reference – MSFC 907 – Fire Alarm and Detection Systems

**907.1 General.** This section covers the application, installation, performance, and maintenance of fire alarm systems and their components in new and existing buildings and structures. The requirements of Section 907.2 are applicable to new buildings and structures. The requirements of Section 907.9 are applicable to existing buildings and structures.

See MSFC Sections 907.1 through 907.9 and Section 1103.7 for additional requirements.

### General Requirements

1. Permits are required for all fire alarm systems. Permit applications and plan review submittals are made through our online process at <https://www.Savagemn.gov/ePortal>. No paper plans are accepted.
2. Early work authorization will be provided upon receipt of a permit application from the Savage Fire Department. **No work shall be started without early work authorization.** Failure to apply for a permit prior to commencement of work will result in an investigation fee being added to the base permit fee in accordance with the City of Savage Fee Schedule.
3. Fire alarm systems shall meet the requirements of the currently adopted and approved edition of NFPA 72.
4. All submittals shall include specification sheets for all components of the system. All plans shall include the elements contained in NFPA 72 for the submittal of working plans.
5. All fire alarm systems shall utilize an addressable fire alarm panel and devices.
  - a. **Exception:** A zoned panel may be allowed when the system is limited to monitoring of a special hazard or fire sprinkler system only and there are no other devices requiring monitoring.
6. The fire alarm system shall monitor all fire protection equipment. This shall include yard or wall post indicators, sprinkler system valves, flow switches, fire department key box, and any other fire protection devices as may be required.



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7. Approved audible/visual fire alarm notification devices to alert occupants shall be provided in the interior of the building in a normally occupied location.
  - a. In multiple tenant buildings a visual notification device shall be in each tenant space.
8. A key box of a type approved by the Savage Fire Department shall be placed on all buildings regardless of occupancy.
  - a. **Exception:** 1 or 2 family residences and non-rental multi-family dwellings
9. The Fire Alarm Control Panel (FACP) shall be located at the approved "Fire Access" location within the facility.
  - a. **Exception:** If the FACP is remotely located a full function annunciator panel shall be provided at the "Fire Access" location.
10. The Fire Alarm Control Panel (FACP) shall be located so that they can be serviced while standing on the ground and shall be provided with a working space of not less than 30 inches in width, 36 inches in depth, and 78 inches in height.
11. Duct smoke detectors located in normally non-visible locations (i.e.: roof or above-finished ceiling) or nonassessable locations (access requires the use of a ladder more than 6 feet in height) shall be provided with remote test indicators and reset controls. Duct smoke detectors shall provide a supervisory signal at the alarm panel. **Refer to the handout on Duct Smoke Detectors for additional information.**
12. Heat detectors installed in areas with an automatic sprinkler system shall have a lower temperature rating than the sprinkler heads in the same area.
13. Tamper devices (lock-on) shall be installed on all circuit breakers used for life safety systems.
14. Manual pull stations should be of the key resettable type, utilizing the same key as the fire alarm panel. Pull stations requiring special tools to reset shall have one of the tools placed inside the spare fire sprinkler head box.
15. Manual pull stations located in areas accessible to the public shall be provided with tamper-resistant covers. The cover shall provide an audible notification when opened.
16. All systems shall be inspected and tested at least annually.
17. The Savage Fire Department will not approve a Final Certificate of Occupancy for any building until a copy of the Certification Certificate is received in our office.

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18. Written operating instructions shall be provided to the property owner (or his/her authorized agent) and shall be placed with the fire alarm control panel. A detailed zone map shall be posted next to the fire alarm panel and annunciator panel (if applicable). A copy of said maps shall be submitted to the Savage Fire Department for approval. An acceptable zone map shall include the following information:
  - a. Minimum size of 8-1/2" x 11" and shall be clear and legible
  - b. Framed and mounted or protected by other acceptable means
  - c. Simplified floor plan map showing zone locations.
  - d. Map shall indicate the location of the alarm panel and annunciators and all devices and related controls. If symbols are used to indicate devices a symbol map shall be provided.
19. The Savage Fire Department shall be contacted for a final system inspection. Appointments can be made by emailing the Savage Fire Department. Please arrange tests at least 24 hours in advance. Completed copies of the "Fire Alarm System Record of Completion" form shall be provided to the Savage Fire Department upon job completion.
20. The minimum inspection will include:
  - a. Function test for proper operation of each device. Use of a magnet is not allowed.
  - b. Sensitivity tested as required per manufacturers specifications.
  - c. Random testing for system trouble.
  - d. Random testing for ground fault trouble.
  - e. Correct operation on battery or standby power.

