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**Residential Sprinkler Alarm for One- and Two-Family Dwellings  
to National Fire Protection Association (NFPA) Standard 13D,  
Including Houses With Secondary Suites**

**ALTERNATIVE TO A SPRINKLER ALARM BELL**

The sprinkler system fire alarm bell may be eliminated when a smoke alarm (smoke detector with integral alarm) is installed and wired to a waterflow detection device and the following conditions are met:

- 1) The waterflow detection device must be U.L.C. or C.S.A. approved.
- 2) The waterflow detection device when activated must sound all alarms in each dwelling unit.
- 3) Smoke alarms must be installed with permanent connections to a 110 volt electrical circuit (which may include lighting or receptacles) containing no disconnect switches or ground fault circuit interrupter between the electrical panel circuit breaker and the alarm(s).  
(See 9.10.18 of the Building By-law)
- 4) Smoke and Sprinkler alarm signals must be distinctive in sound from other signals and this sound shall be used for no other purpose. In a combination smoke/sprinkler/burglar alarm system, a continuous sound for smoke/sprinkler and a pulsating sound for burglary is acceptable.

Wiring diagrams for single-family house and single-family house with a secondary suite are shown on the back of this Bulletin.

"Smoke Detector 0428-C"  
By Fire-X



R. V. Hebert, PEng  
DIRECTOR and CITY BUILDING INSPECTOR

P.T.O.

# ELECTRICAL CONTROL SCHEMATIC

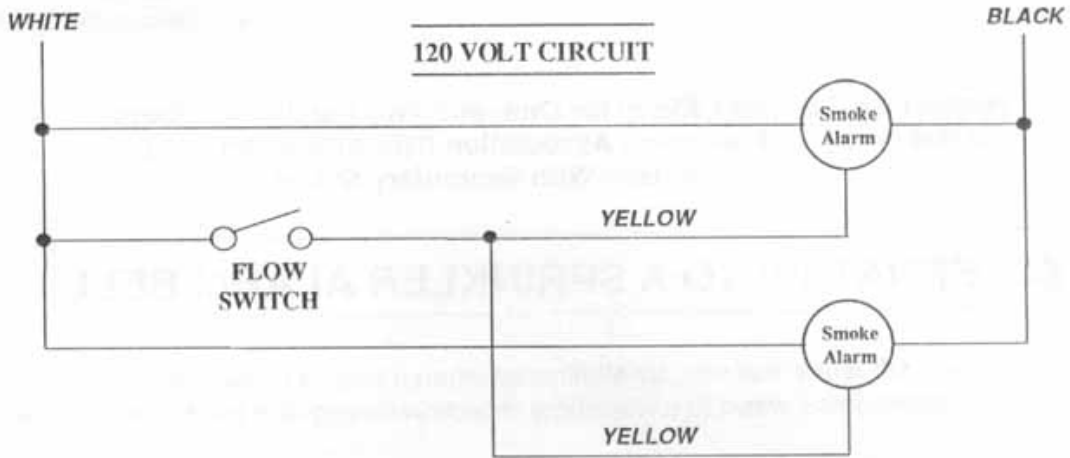
## Using a Sprinkler Flow Switch to Activate Residential Smoke Alarms

**Warning:** This information is intended for use by a Certified Electrical Contractor only.

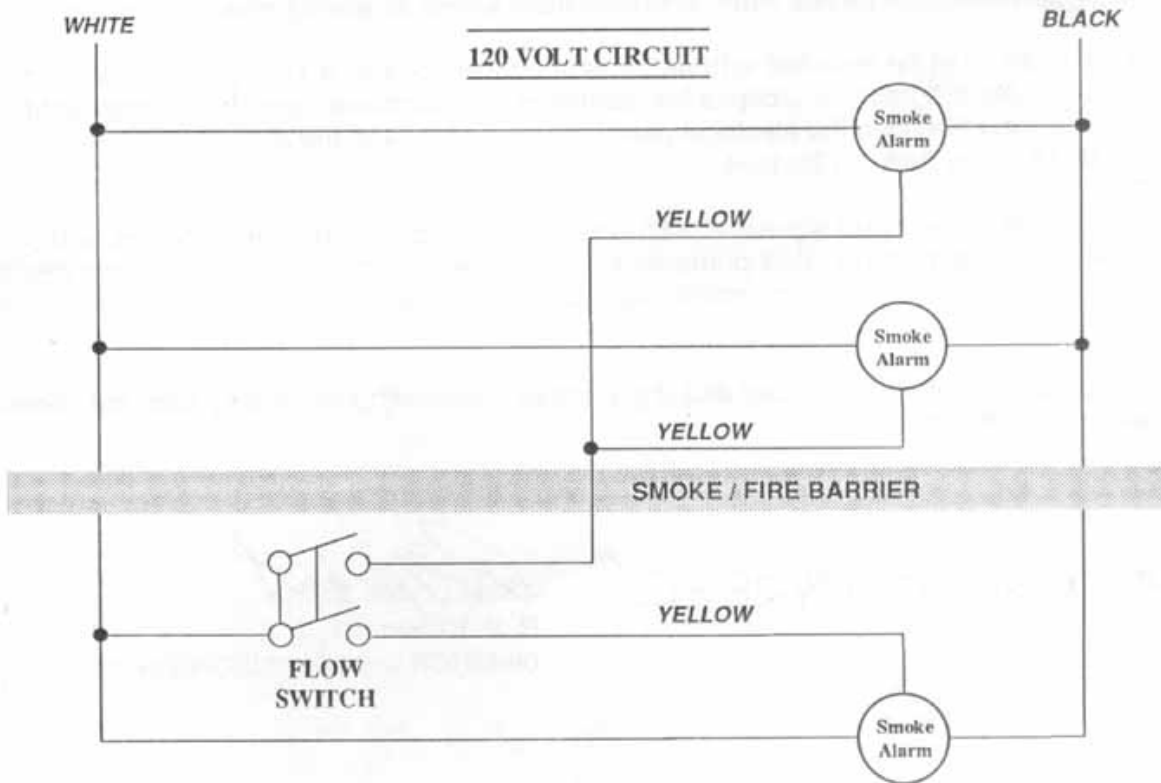
These examples show acceptable alternatives to installing one or more sprinkler alarm bells.

The diagrams shown are based on "DICON" equipment. *Fire X 0428C*

Installers must check specific manufacturer's data for proper functioning.



EXAMPLE FOR A SINGLE FAMILY DWELLING



EXAMPLE FOR A SINGLE FAMILY DWELLING WITH A SECONDARY SUITE