

Table 8.1: General Requirements of Fire Detection and Alarm Systems

ITEMS	REQUIREMENTS
20. SUPPRESSION SYSTEM ACTUATION THROUGH FACP	<ul style="list-style-type: none"> i. Fire alarm control units used for automatic or manual activation of a fire suppression system shall be listed for releasing service and approved by Civil Defence. ii. Releasing devices for suppression systems shall be listed for use with releasing service control units. iii. Fire alarm systems used for fire suppression–releasing service shall be provided with a disconnect switch to allow the system to be tested without actuating the fire suppression systems. iv. Operation of a disconnect switch or a disable function shall cause a supervisory signal at the fire alarm control unit. v. The disconnect shall be a physical switch and not be accomplished by using software. vi. Suppression systems or groups of systems shall be controlled by a single control unit that monitors the associated initiating device(s), actuates the associated releasing device(s), and controls the associated agent release notification appliances. vii. If the releasing control unit is located in a protected premises having a separate fire alarm system, it shall be monitored for alarm, supervisory, and trouble signals, but shall not be dependent on or affected by the operation or failure of the protected premises fire alarm system. viii. Fire alarm systems performing suppression system releasing functions shall be installed in such a manner that they are effectively protected from damage caused by activation of the suppression system(s) they control.
21. ELEVATOR RECALL FOR FIRE FIGHTERS' SERVICES	<ul style="list-style-type: none"> i. System-type smoke detectors, or other automatic fire detection located in elevator lobbies, elevator hoist ways, and elevator machine rooms including machine space, control room, and control space used to initiate fire fighters' service recall, shall be connected to the building fire alarm system. ii. Each elevator lobby, elevator hoist way, and elevator machine room smoke detector, or other automatic fire detection, shall be capable of initiating elevator recall when all other devices on the same initiating device circuit have been manually or automatically placed in the alarm condition. iii. A lobby smoke detector shall be located on the ceiling within 6.4 m of the centerline of each elevator door within the elevator bank under control of the detector. iv. Smoke detectors shall not be installed in unsprinklered elevator hoistways unless they are installed to activate the elevator hoistway smoke relief equipment. v. If ambient conditions prohibit installation of automatic smoke detection, other automatic fire detection shall be permitted. vi. When actuated, any detector that has initiated firefighters' recall shall also be annunciated at the building fire alarm control unit and required remote annunciators.



FIREFIGHTERS' ELEVATOR SWITCH FOR ILLUSTRATION