

STANDARDS AUSTRALIA

Amendment No. 1
to
AS 4428.1—1998
Fire detection, warning, control and intercom systems—Control and indicating equipment
Part 1: Fire

REVISED TEXT

The 1998 edition of AS 4428.1 is amended as follows; the amendment(s) should be inserted in the appropriate place(s).

SUMMARY: This Amendment applies to Clause 2.16(New).

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Add new Clause 2.16 as follows:

2.16 ALARM ACKNOWLEDGEMENT FACILITY (OPTION WITH REQUIREMENTS)

2.16.1 General

An alarm acknowledgement facility (AAF) shall be capable of being associated with one or more detectors.

Each alarm acknowledgement facility shall operate independently of any other alarm acknowledgement facility. The CIE shall be capable of operating at least two alarm acknowledgement facilities simultaneously. If alarms are detected in excess of the maximum number of alarm acknowledgement facilities that can be processed simultaneously by the CIE, then the excess alarms shall not be delayed.

2.16.2 AAF sounder

The AAF sounder shall operate when an alarm is detected in at least one associated detector. The sounder shall maintain a sound pressure level of at least 75 dB(A) at a distance of 1 m when tested in accordance with AS 4428.0. Where the sounder forms part of an occupant warning system, the sounder shall meet the sound pressure level requirements specified in AS 1670.1.

2.16.3 AAF indicator

The alarm acknowledgment facility shall be fitted with a red visual indicator that meets the requirements of AS 4428.0. The indicator shall be lit when an alarm is detected in at least one associated detector. The indicator may flash periodically in a non-alarm state.

Where the indicator forms part of the smoke alarm or fire detector, the indicator on the smoke alarm or fire detector satisfies indicator requirements.

2.16.4 Acknowledgement period

When an alarm condition is detected by an associated detector, the alarm condition at the CIE shall be delayed for an acknowledgment period. The acknowledgement period shall be adjustable to a maximum of 1.0 min in increments not greater than 0.5 min.

2.16.5 AAF control

The AAF control shall use a momentary action.

When activated during the acknowledgment period, the AAF control shall—

- (a) inhibit a fire alarm condition at the CIE; and
- (b) silence the AAF sounder.

Activation of the AAF control outside the acknowledgment period shall not cause the initiation of an investigation period.

2.16.6 Investigation period

An investigation period shall be initiated upon the first activation of the AAF control during the acknowledgment period. Repeated or continuous activation of the AAF control during the alarm investigation period, shall not alter the duration of the investigation period. The investigation period shall be adjustable from 0 to 3.0 min in increments not greater than 1.0 min.

If the alarm condition in all associated detectors is cleared during or by the end of the investigation period then the fire alarm condition shall not be generated at the CIE. When the alarm condition in the associated detector is cleared, the AAF indicator shall extinguish.

If the alarm condition remains in any associated detector after the conclusion of the investigation period, then a fire alarm condition shall be generated by the CIE.

2.16.7 Mounting facilities

The alarm acknowledgment facility shall be designed to facilitate mounting of the controls at a height of 1 m from the floor. Suitable mounting hardware shall be provided with the alarm acknowledgment facility.

2.16.8 Marking

The AAF control shall be marked with the words 'PRESS TO ACKNOWLEDGE FALSE ALARM' in letters not less than 3 mm high. The letter shall be in a contrasting colour to the background. Other wording that clearly indicates the intent may also be used.
