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Australian Standard®

Automatic fire detection and alarm systems—Methods of test for actuating devices

Method 20: Overload test

1 SCOPE This Standard sets out the method for testing the resistance to overload of actuating devices. (See performance requirements in the appropriate device Standard.)

2 PRINCIPLE The actuating device is subjected to repeated operations to determine its ability to function with externally connected electrical load.

3 APPARATUS Suitable power supply to meet the requirements of Clause 4.

4 PROCEDURE The procedure shall be as follows:

(a) Connect the actuating device to a power supply producing a test load of 150% of the manufacturer's rating for the actuating device output circuit.

(b) Subject the actuating device to 50 cycles of alarm state operation at a rate of of not more than 6 cycles per minute. Each cycle shall start with the actuating device energized in the normal standby condition.

Initiate the actuating device by smoke or other means, then restore it to normal standby condition.

5 REPORTING OF RESULTS The following shall be reported:

(a) Information identifying the actuating device.

(b) Whether the actuating device was capable of operating in the normal manner throughout the tests.

(c) Reference to this test method.