

IS/ISO 7240-7: 2011

## Indian Standard FIRE DETECTION AND ALARM SYSTEMS

## PART 7 POINT-TYPE SMOKE DETECTORS USING SCATTERED LIGHT, TRANSMITTED LIGHT OR IONIZATION

## 1 Scope

This part of ISO 7240 specifies requirements, test methods and performance criteria for point-type smoke detectors that operate using scattered light, transmitted light or ionization, for use in fire detection and alarm systems installed in buildings (see ISO 7240-1). This part of ISO 7240 also covers point smoke detectors that incorporate more than one smoke sensor operating on these principles. Additional requirements and test methods for such detectors are given in Annex N.

For the testing of other types of smoke detectors, or smoke detectors working on different principles, this part of ISO 7240 can be used only for guidance. Smoke detectors with special characteristics, developed for specific risks, are not covered.

NOTE Certain types of detector contain radioactive materials. The national requirements for radiation protection differ from country to country and are not specified in this part of ISO 7240.

## 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 209, Aluminium and aluminium alloys — Chemical composition

ISO 7240-1, Fire detection and alarm systems — Part 1: General and definitions

IEC 60068-1, Environmental testing — Part 1: General and guidance

IEC 60068-2-1, Environmental testing — Part 2-1: Tests — Test A: Cold

IEC 60068-2-2, Environmental testing — Part 2-2: Tests — Test B: Dry heat

IEC 60068-2-6, Environmental testing — Part 2-6: Tests — Test Fc: Vibration (sinusoidal)

IEC 60068-2-27, Environmental testing — Part 2-27: Tests — Test Ea and guidance: Shock

IEC 60068-2-42, Environmental testing — Part 2-42: Tests — Test Kc: Sulphur dioxide test for contacts and connections

IEC 60068-2-78, Environmental testing — Part 2-78: Tests — Test Cab: Damp heat, steady state

EN 50130-4:1995 + A1:1998 + A2:2003, Alarm systems — Part 4: Electromagnetic compatibility — Product family standard: Immunity requirements for components of fire, intruder and social alarm systems