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Fire detection and alarm systems —

Part 12: Line type smoke detectors using a transmitted optical beam

Systèmes de détection d'incendie et d'alarme —

Partie 12: Détecteurs linéaires de fumée utilisant une transmission par faisceaux lumineux

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 21, *Equipment for fire protection and fire fighting*, Subcommittee SC 3, *Fire detection and alarm systems.*

This third edition cancels and replaces the second edition (ISO 7240-12:2014), which has been technically revised.

The main changes are as follows:

— references to EN 50130-4 have been replaced with references to IEC 62599-2 (electromagnetic compatibility immunity test);

— uniform acceptance criteria has been adopted for all line-type smoke detectors;

— editorial corrections have been made to bring the document in line with current ISO drafting rules.

A list of all parts in the ISO 7240 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user’s national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

A fire detection and alarm system is required to function satisfactorily not only in the event of fire, but also during and after exposure to conditions likely to be met in practice, including corrosion, vibration, direct impact, indirect shock and electromagnetic interference. Specific tests are intended to assess the performance of the smoke detectors under such conditions.

This document is not intended to place any other restrictions on the design and construction of such detectors.