
Fire detection and alarm systems —
Part 30:
Design, installation, commissioning
and service of video fire detector
systems

Systèmes de détection et d'alarme d'incendie —

Partie 30: Conception, installation, prise en charge et entretien des
systèmes de détection incendie par vidéo



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

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*.

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

The installation of a video fire detection system (VFDS) can only be successfully accomplished if the following conditions are fulfilled:

- materials are of a suitable quality;
- special knowledge in the field of video fire detection (VFD) is implemented;
- skilled personnel carry out the work.

Although the quality of the material can be ensured by adherence to applicable standards and quality audits, the overall effectiveness of an installation depends widely on the quality of work, the experience of the designer and installer, and regular service.

This document has been prepared by ISO/TC 21/SC 3. A number of existing national codes and standards were reviewed during the preparation of this document. As VFD technology is significantly different from conventional fire detection technology, different considerations need to be addressed and therefore a document specifying the installation of VFDSs has been developed. While specific to VFDSs, this document has the same objective of early fire detection as ISO 7240-7. This document specifies the minimum requirements for fire detection installation using equipment conforming ISO/TS 7240-29.

Fire detection and alarm systems —

Part 30:

Design, installation, commissioning and service of video fire detector systems

1 Scope

This document specifies the design, installation, commissioning and service requirements for video fire detector systems (VFDS; see ISO/TS 7240-29), which are primarily intended to provide early detection of fire within one or more specified indoor areas for the protection of lives and equipment. The VFDS can also serve to protect from specific defined risks. The VFDS can be an independent fire detection system or can be used in conjunction with a fire detection and alarm system (FDAS; see ISO 7240-1:2014, Figure 1).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 7240-1, *Fire detection and alarm systems — Part 1: General and definitions*

ISO 7240-4, *Fire detection and alarm systems — Part 4: Power supply equipment*

ISO 7240-13, *Fire detection and alarm systems — Part 13: Compatibility assessment of system components*

ISO 7240-14, *Fire detection and alarm systems — Part 14: Design, installation, commissioning and service of fire detection and fire alarm systems in and around buildings*

3 Terms, definitions and abbreviated terms

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 7240-1 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1.1

alarm zone

geographic subdivision of the premises in which one or more alarm devices are installed and for which a common zonal alarm indication is provided

3.1.2

detection zone

geographic subdivision of the premises in which one or more points are installed and for which a common zonal detection indication is provided