

ICS 13.310

English version

**Alarm systems - Intrusion systems**  
**Part 2-3: Requirements for microwave detectors**

Systèmes d'alarme -  
Systèmes de détection intrusion  
Partie 2-3: Exigences pour détecteurs  
micro-ondes

Alarmanlagen -  
Einbruchmeldeanlagen  
Teil 2-3: Anforderungen an  
Mikrowellenmelder

This Technical Specification was approved by CENELEC on 2004-05-04.

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**CENELEC**

European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

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### Foreword

This Technical Specification was prepared by the Technical Committee CENELEC TC 79, Alarm systems.

The text of the draft was submitted to the vote at the meeting of TC 79 in Madrid and was approved by CENELEC as CLC/TS 50131-2-3 on 2004-05-04. Standstill is maintained.

The following date was fixed:

- |   |       |            |
|---|-------|------------|
| - latest date by which the existence of the TS<br>has to be announced at national level | (doa) | 2004-11-04 |
|---|-------|------------|

NOTE Latest date by which the TS has to be voted as EN: 2 years maximum after day of TS.

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## Introduction

This Technical Specification is a specification for microwave detectors (to be referred to as the detector) used as part of intrusion detection systems installed in buildings. It includes four security grades and the first three environmental classes.

The purpose of the detector is to detect an intruder. It emits microwave radiation over the area being protected, and analyses signals that are returned. An intrusion signal or message is generated when the detector registers a positive indication of the presence of an intruder. The detector shall provide the necessary range of signals or messages to be used by the rest of the intrusion detection system.

The number and scope of these signals or messages will be more comprehensive for systems that are specified at the higher grades.

All detectors shall meet the requirements of the telecommunications standards for short-range devices (SRDs).

This specification is only concerned with the requirements and tests for the microwave detector. Other types of detector are covered by other documents identified as CLC/TS 50131-2-x.

The requirement in EN 50131-1 that detectors in grade 3 and 4 systems shall include a means to detect a significant reduction in range may be met either by detectors having the appropriate function (4.2.3) or by suitable system design.

## 1 Scope

This Technical Specification provides for security grades 1 to 4 (see EN 50131-1) specific or non-specific wired or wire-free microwave detectors and is covered by environmental classes I to III (see EN 50130-5).

A function designated in the specification as not required for a particular grade may be provided by the manufacturer. If provided, it will be tested, and shall meet all relevant requirements of any higher grade. If it passes, the manufacturer may claim it as an extra feature, which does not alter the overall grading of the detector.

The specification does not apply to system interconnections.

## 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.

EN 50130-4:1995	Alarm systems - Part 4: Electromagnetic compatibility - Product family standard: Immunity requirements for components of fire, intruder and social alarm systems
EN 50130-5:1998	Alarm systems - Part 5: Environmental test methods
EN 50131-1:1997	Alarm Systems - Intrusion systems - Part 1: General requirements
EN 50131-6:1997	Alarm systems - Intrusion systems - Part 6: Power supplies
EN 60529:1991	Degree of protection provided by enclosures (IP code)