

Alarm systems - Intrusion systems - Part 5-3:  
Requirements for interconnections equipment using  
radio frequency techniques

## EESTI STANDARDI EESSÕNA

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English Version

## Alarm systems - Intrusion systems - Part 5-3: Requirements for interconnections equipment using radio frequency techniques

Systèmes d'alarme - Systèmes d'alarme contre l'intrusion -  
Partie 5-3: Exigences pour les équipements  
d'interconnexion utilisant des techniques radio

Alarmanlagen - Einbruch- und Überfallmeldeanlagen - Teil  
5-3: Anforderungen an Übertragungsgeräte, die  
Funkfrequenz-Techniken verwenden

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## European foreword

This document (EN 50131-5-3:2017) has been prepared by CLC/TC 79 "Alarm systems".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2017-09-17
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2020-03-17

This document supersedes EN 50131-5-3:2005.

This document is bound to be used in conjunction with the other parts of the EN 50131 series that define the functional requirements of the equipment regardless of the type of interconnections used.

EN 50131-5 is currently composed with the following parts:

- CLC/FprTS 50131-5-1 *Alarm systems — Intrusion systems — Part 5-1: Interconnections — Requirements for wired Interconnection for I&HAS equipments located in supervised premises;*
- EN 50131-5-3, *Alarm systems — Intrusion systems — Part 5-3: Requirements for interconnections equipment using radio frequency techniques;*
- CLC/TS 50131-5-4, *Alarm systems — Intrusion and hold-up systems — Part 5-4: System compatibility testing for I&HAS equipments located in supervised premises.*

## 1 Scope

This European Standard applies to intrusion alarm equipment using radio frequency (RF) links and located on protected premises. It does not cover long-range radio transmissions.

This European Standard defines the terms used in the field of intrusion alarm equipment using radio frequency links as well as the requirements relevant to the equipment.

## 2 Normative references

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

EN 50131-1:2006, *Alarm systems - Intrusion and hold-up systems - Part 1: System requirements*

EN 50131-3, *Alarm systems - Intrusion and hold-up systems - Part 3: Control and indicating equipment*

## 3 Terms, definitions and abbreviated terms

### 3.1 Terms and definitions

For the purpose of this document, the following terms and definitions apply.

#### 3.1.1

##### **alarm message**

message conveying information regarding intruder, tamper or fault alarms

#### 3.1.2

##### **assigned band**

frequency band within which the equipment is authorized to operate

#### 3.1.3

##### **attenuation**

degradation of the RF signal due to a change in the passive environment of the system after its installation

EXAMPLE Creation, relocation or reflection or absorption materials.

#### 3.1.4

##### **collision**

simultaneous transmissions from two or more RF communication devices belonging to the same system, of sufficient signal strength to cause corruption or obliteration of the RF signals

#### 3.1.5

##### **collision probability**

likelihood of two or more messages having part or all of their information coincident on the RF link leading to a collision

#### 3.1.6

##### **communication link**

all local RF equipment, media and protocols used to route alarm system messages