BS EN 50131-5-3:2017

BSI Standards Publication

Alarm systems — Intrusion systems

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

bsi.

This British Standard is the UK implementation of EN 50131-5-3:2017. It supersedes BS EN 50131-5-3:2005+A1:2008 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee GW/1, Electronic security systems.

A list of organizations represented on this committee can be obtained on request to its secretary.

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

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

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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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• latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	2020-03-17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