SLOVENSKI STANDARD
SIST EN 50131-6:2008/A1:2014

01-september-2014

Alarmni sistemi - Sistemi za javljanje vloma in ropa - 6. del: Napajalniki - Dopolnilo A1

Alarm systems - Intrusion and hold-up systems -- Part 6: Power supplies

Alarmanlagen - Einbruch- und Überfallmeldeanlagen - Teil 6: Energieversorgungen

Systémes d'alarme - Systèmes d'alarme contre l'intrusion et les hold-up - Partie 6: Alimentation

Ta slovenski standard je istoveten z: EN 50131-6:2008/A1:2014

ICS:

13.310	Varstvo pred kriminalom	Protection against crime
13.320	Alarmni in opozorilni sistemi	Alarm and warning systems

SIST EN 50131-6:2008/A1:2014 **en,fr**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 50131-6:2008/A1

June 2014

ICS 13.310

English Version

Alarm systems - Intrusion and hold-up systems - Part 6: Power supplies

Systèmes d'alarme - Systèmes d'alarme contre l'intrusion et les hold-up - Partie 6: Alimentation

Alarmanlagen - Einbruch- und Überfallmeldeanlagen - Teil 6: Energieversorgungen

This amendment A1 modifies the European Standard EN 50131-6:2008; it was approved by CENELEC on 2014-03-17. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

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

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Foreword

This document (EN 50131-6:2008/A1:2014) 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)	2015-03-17
• latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	2017-03-17

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1 Modification to the Scope

Add the following new 5th paragraph:

"This European Standard does not deal with requirements for compliance with EC regulatory Directives, such as the EMC Directive, Low Voltage Directive, etc. except that it specifies the equipment operating conditions for EMC susceptibility testing as required by EN 50130-4."

2 Modifications to Clause 2, Normative references

Replace the 3rd entry with the following:

"EN 50131-1 + A1	2006 2009	Alarm systems – Intrusion and hold-up systems – Part 1: System requirements"

Delete the entry for EN 60065.

Add the following new entries:

"EN 60068-2-14	2009	Environmental testing – Part 2-14: Tests – Test N: Change of temperature (IEC 60068-2-14:2009)
EN 60068-2-75	1997	Environmental testing – Part 2-75: Tests – Test Eh: Hammer tests (IEC 60068-2-75:1997)"

Delete the entry for EN 60950 series.

Delete the entry for EN 61000-6-3.

3 Modification to Clause 3, Definitions and abbreviations

3.1.11
open by normal means

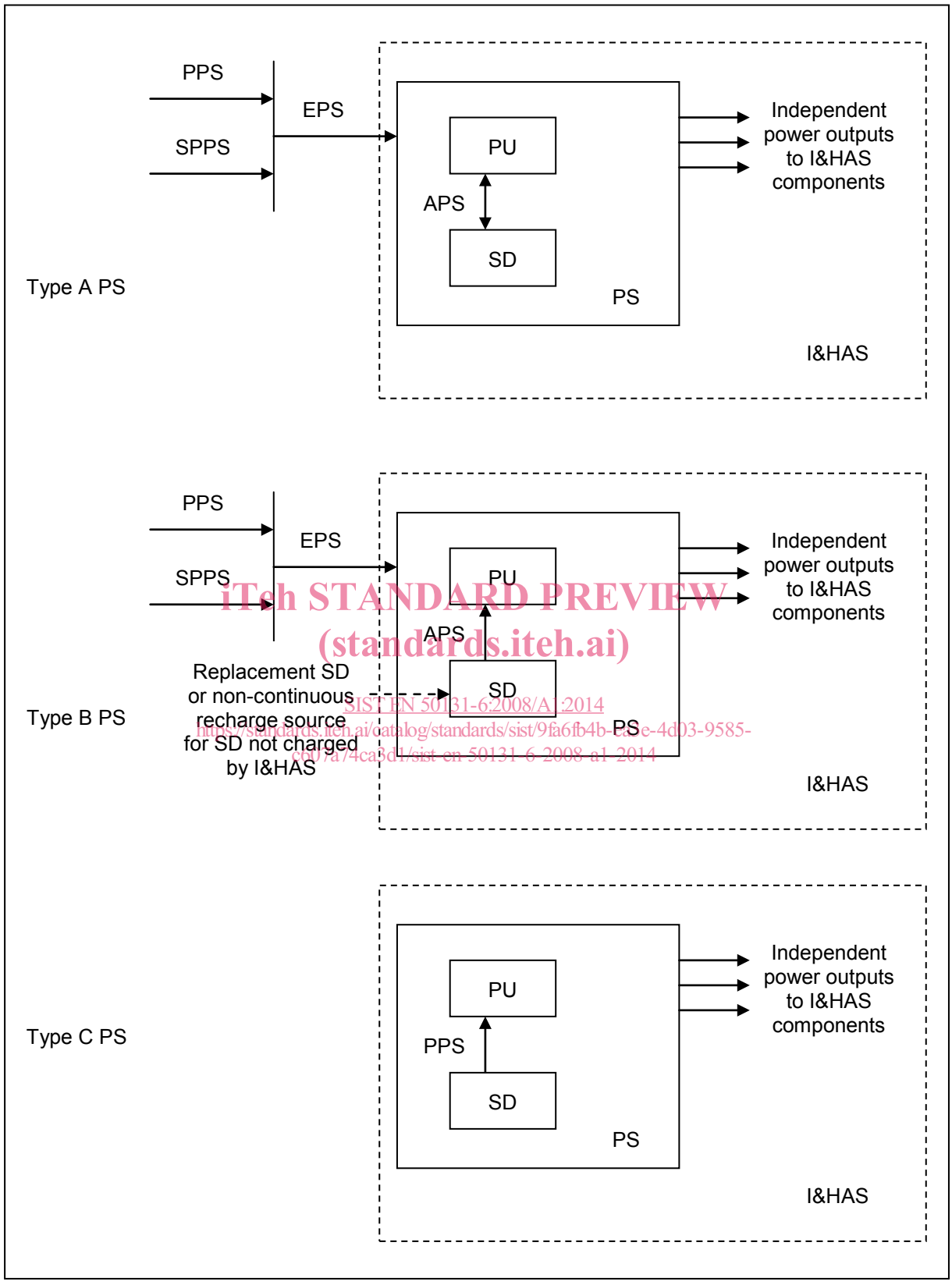
Delete the 3rd word "by" *in the definition.*

4 Modification to Clause 4, Functional requirements

4.1 General

Replace Figure 1 with the following:

"



NOTE For PS types A and B, where there is no SPPS, the PPS and EPS are identical.

Figure 1 — Power supply types"

Add the following new paragraph immediately before Table 1:

"If a function is provided that is optional for a particular grade and a claim of compliance is made, it shall meet the applicable requirements for the grade for which compliance is claimed (if any are given). If there are no specifications for the function at the grade in question, the requirements for any higher grade (as identified by the PS manufacturer) shall apply."

In Tables 1 and 2, replace all references “n/a” *with* “NA”.

4.2.1 Loss of EPS

Replace the text of this subclause with the following:

"A loss of EPS condition shall be detected within 10 s.

When the EPS has been continuously disconnected for a minimum of 10 s, an EPS fault signal or message shall be generated within 60 s.

When the EPS has been continuously re-connected for a minimum of 1 s an EPS fault signal or message shall be removed within 60 s."

4.6 Short Circuit Protection

In the 2nd paragraph, replace “and reset…” *with* “and replacement or reset…”.

4.11.1 Tamper Protection

Replace the text of the whole subclause with the following (including a new table):

"The construction of the PS housing(s) shall meet the tamper protection requirements of EN 50131-1 and the impact requirements for the appropriate grade according to Table 4. IK impact ratings are detailed in EN 62262.

This requirement permits the housing to be damaged, provided that a tamper signal or message shall be generated before unauthorised access to internal elements is possible.

Where the PS is distributed within the housing of other components of the I&HAS, then the tamper protection of such housings shall comply with the standard for that component.

Provision shall be made to allow adequate fixing of the housing to the mounting surface.

Means of access to internal elements of a PS shall be robust and mechanically secured.

Table 4 – Tamper protection

PS	Grade 1		Grade 2		Grade 3		Grade 4	
	Int	Ext	Int	Ext	Int	Ext	Int	Ext
Severity level (IK code) (design specification)	**04**	**07**	**06**	**07**	**06**	**07**	**06**	**07**
Impact energy (Joule) (test condition)	0,5 J	2 J	1 J	2 J	1 J	2 J	1 J	2 J
Int = Inside the supervised premises Ext = Outside the supervised premises (indoor or outdoor).								

In grades 1 and 2 this requirement does not include indicators (EXAMPLE: display); in grades 3 and 4 such indicators and any other apertures accessible to a level 1 user are included."

Renumber the remaining existing tables consequently.

4.11.2 Tamper Detection

Replace former Table 4 (current Table 5) with the following:

"Table 5 — Tamper detection

Event to be detected	Grade 1	Grade 2	Grade 3	Grade 4
Access to the inside of the housing	M	M	M	M
Removal from mounting	Op	Op	M	M
Removal from mounting (using wire free communication with CIE)	Op	M	M	M
Penetration of housing [a]	Op	Op	Op	M
M = Mandatory Op = Optional				
[a] When located outside the supervised premises.				

"

4.11.2.1 Access to the inside of the housing

Add the following (including the new Table 6) at the end of the subclause:

"The housing shall not permit the introduction of tools of dimensions as specified in Table 6 to defeat the tamper detection before it has operated.

Table 6 – Tool dimension for tamper detection

Dimensions in millimetres

	Grade 1	Grade 2	Grade 3	Grade 4
Steel rod as specified in EN 60529, with diameter	2,5	2,5	1	1
Flat bar of dimension	10 x 1 x > 300	10 x 1 x > 300	5 x 0,5 x > 300	5 x 0,5 x > 300
Steel wire of tensile strength 650 MPa - 825 MPa and dimensions	NA	NA	Ø 1 x 100	Ø 1 x 100
NA = Not applicable.				

In grades 1 and 2 this requirement does not include insertion of the tool via indicators (EXAMPLE: display) or other apertures; in grades 3 and 4 such indicators and any other apertures accessible to a level 1 user are included."

4.11.2.2 Removal from mounting

Replace the 2nd paragraph with the following:

"It should not be possible to defeat the removal from mounting detection by sliding a 25 mm x 1 mm x > 300 mm blade, or by use of pliers (of thickness 5 mm and reach 150 mm) between the mounting surface and the power supply."

4.12 Environmental

Replace former Table 6 (current Table 8) with the following:

"Table 8 — Environmental and EMC tests and severity

	Reduced functional test	Test	Type	Class I	Class II	Class III	Class IV
1	B, D, A	Dry heat	Operational	M	M	M	M
2	B, A	Dry heat	Endurance	NA	NA	NA	M
3	B, D, A	Cold	Operational	M	M	M	M
4	B, D, A	Damp heat, steady state	Operational	M	NA	NA	NA
5	B, A	Damp heat, steady state	Endurance	M	M	M	M
6	B, D, A	Temperature change	Operational	M [a]	M [a]	M [a]	M [a]
7	B, D, A	Damp heat, cyclic	Operational	NA	M	M	M
8	B, A	Damp heat, cyclic	Endurance	NA	NA	M	M
9	B, C, A	Water ingress	Operational	M [a]	M [a]	M	M
10	B, A	Sulphur dioxide (SO_2)	Endurance	NA	NA	M [b]	M [b]
11	B, A	Salt mist, cyclic	Endurance	NA	NA	NA	M
12	B, C, A	Impact	Operational	M	M	M	M
13	B, C, A	Shock	Operational	M	M	M	M
14	B, C, A	Vibration, sinusoidal	Operational	M	M	M	M
15	B, D, A	EMC	Operational	M	M	M	M
16	B, C, A	Free fall	Operational	M [a]	M [a]	M [a]	M [a]

A After conditioning and recovery period
B Before conditioning
C Monitor during conditioning
D During conditioning, monitor and conduct reduced functional test when specified in EN 50130-5.
M Mandatory
NA Not applicable

[a] Applicable to portable equipment
[b] Only for equipment having a tamper detection device

"

4.13 Safety

Replace the text of this subclause with 'Void'.