



**SLOVENSKI STANDARD**  
**SIST EN 50131-2-3:2009/IS1:2014**  
**01-april-2014**

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**Alarmni sistemi - Sistemi za javljanje vloma in ropa - 2-3. del: Zahteve za mikrovalovne javljalnike - Dopnilo IS1**

Alarm systems - Intrusion and hold-up systems -- Part 2-3: Requirements for microwave detectors

Alarmanlagen - Einbruch- und Überfallmeldeanlagen -- Teil 2-3: Anforderungen an Mikrowellenmelder

Systèmes d'alarme - Systèmes d'alarme contre l'intrusion et les hold-up -- Partie 2-3: Exigences pour détecteurs à hyperfréquences

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**Ta slovenski standard je istoveten z: EN 50131-2-3:2008/IS1:2014**

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**ICS:**

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

**SIST EN 50131-2-3:2009/IS1:2014**      **en,fr**

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INTERPRETATION SHEET

**EN 50131-2-3/IS1**

FEUILLE D'INTERPRETATION

INTERPRETATIONSBLATT

February 2014

ICS 13.320

English version

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

Systèmes d'alarme -  
Systèmes d'alarme contre l'intrusion et les  
hold-up -  
Partie 2-3: Exigences pour détecteurs à  
hyperfréquences

Alarmanlagen -  
Einbruch- und Überfallmeldeanlagen -  
Teil 2-3: Anforderungen an  
Mikrowellenmelder

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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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# CENELEC

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

**CEN-CENELEC Management Centre: Avenue Marnix 17, B - 1000 Brussels**

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## Foreword

This Interpretation Sheet to the European Standard EN 50131-2-3:2008 was prepared by CLC/TC 79 "Alarm systems".

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**EN 50131-2-3:2008/IS1:2014 (E)****Text of IS1 to EN 50131-2-3:2008****Clause:**

Annex A and Figure A.1

**Question:**

Would it be allowed for test purposes (for test houses and manufacturers) to use the NeoDym magnet listed below instead of the AlNiCo version described in Annex A and Figure A.1 for reproducible tests ?

**Interpretation:**

Yes, because this will allow stable and reproducible test results, which is not guaranteed while using the AlNiCo magnet due to the nature of the magnet material. Furthermore, the test magnet described below allows a high-level degree of backward compatibility for already tested products, while it gives the stability required.

Therefore, when the NeoDym magnet is used for test purposes (for test houses and manufacturers), the text below may be used in place of Annex A.

**Validity:**

This interpretation remains valid until an amendment or updated standard dealing with this issue is published by CENELEC.

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## Annex A (normative)

### Dimensions & requirements of the standardised test magnets

#### A.1 Normative references

The interference test magnets shall comprise a magnet identical to the corresponding magnet supplied with the detector and one of the following specified independent test magnets according to whether the detector is surface or flush mounted.

The following standards will form the base for the selection of the independent test magnet:

EN 60404-5, *Magnetic materials – Part 5: Permanent magnet (magnetically hard) materials – Methods of measurement of magnetic properties (IEC 60404-5)*

EN 60404-14, *Magnetic materials – Part 14: Methods of measurement of the magnetic dipole moment of a ferromagnetic material specimen by the withdrawal or rotation method (IEC 60404-14)*

IEC 60404-8-1, *Magnetic materials – Part 8-1: Specifications for individual materials – Magnetically hard materials*

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#### A.2 Requirements

The field strength of the magnet determined by the magnetic material, by remanence ( $B_r$ ) in mT and the product of energy  $(BH)_{\max}$  in  $\text{kJ/m}^3$ , which are material dependent as the values describe the full saturation of that material should be measured before any calibration took place.

The field strength of the test magnet needs to be adjusted at the polarization of the working point in mT as defined.

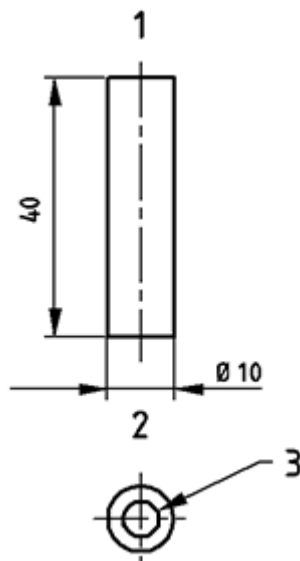
The relevant value, dimensions and measurement point for the test magnet can be found in the following drawings and tables. For calculations, measurements and calibration of the test magnets, the norms cited above shall be used.

The independent test magnet for Test Magnet Type 1 is described in Figure A.1.

To get the magnets in question adjusted to the proper values and calibrated (e.g. polarization in working point), it is strongly suggested to perform adjustments of the magnetic values for ordered magnets performed by an accredited test house for magnetic fields. One potential source could be the following:

MAGNET-PHYSIK  
Dr. Steingroever GmbH  
Emil-Hoffmann-Strasse 3  
50966 Cologne, Germany  
[www.magnet-physik.de](http://www.magnet-physik.de)

EN 50131-2-3:2008/IS1:2014 (E)

**Key**

- 1 North pole
- 2 South pole
- 3 North pole

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Material	NdFeB N40 (REFeB 310/130 - Code number R5-1-11)
Remanence $B_r$ min	0,275 T $\pm$ 2 %
Product of energy $(BH)_{max}$	310 kJ/m <sup>3</sup> $\pm$ 3 %
Polarization of working point	0,835 T $\pm$ 2 %

Figure A.1 — Test magnet – Magnet Type 1