

SVENSK STANDARD SS-EN 50291

| Fastställd | Utgåva | Sida | Ingår i |
|------------|--------|----------|---------------|
| 2001-10-26 | 1 | 1 (1+21) | SEK Område 31 |

© Copyright SEK. Reproduction in any form without permission is prohibited.

Svenska Elektriska Kommissionen, SEK

Elektrisk utrustning för detektering av kolmonoxid i hemmiljö – Fordringar och provning

Electrical apparatus for the detection of carbon monoxide in domestic premises – Test methods and performance requirements

Som svensk standard gäller europastandarden EN 50291:2001. Den svenska standarden innehåller den officiella engelska språkversionen av EN 50291:2001.

Denna standard är fastställd av Svenska Elektriska Kommissionen, SEK, som också kan lämna upplysningar om **sakinnehållet** i standarden. Postadress: SEK, Box 1284, 164 29 KISTA *Telefon*: 08 - 444 14 00. *Telefax*: 08 - 444 14 30 *E-post*: sek@sekom.se. *Internet*: www.sekom.se

EUROPEAN STANDARD

EN 50291

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 2001

ICS 13.320

English version

Electrical apparatus for the detection of carbon monoxide in domestic premises -Test methods and performance requirements

Appareils électriques pour la détection de monoxyde de carbone dans les locaux à usage domestique -Méthodes d'essais et prescriptions de performances Elektrische Geräte für die Detektion von Kohlenmonoxid in Wohnhäusern -Prüfverfahren und Anforderungen an das Betriebsverhalten

This European Standard was approved by CENELEC on 2000-08-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat 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 Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

© 2001 CENELEC - All rights of exploitation in any form and by any means reserved worldwide for CENELEC members.

Foreword

This European Standard has been prepared by the Technical Committee CENELEC TC 216, Gas detectors.

The text of the draft was submitted to the formal vote and was approved by CENELEC as EN 50291 on 2000-08-01.

The following dates were fixed:

| | latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement | (dop) | 2002-02-01 |
|--|--|-------|------------|
| | latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2006-04-01 |
| Annexes designated "normative" are part of the body of the standard. Annexes designated "informative" are given for information only. In this standard, annexes A and B are informative. | | | |

Contents

| 1 | Scop | e4 | ŀ | | | | |
|-----|--|---|---|--|--|--|--|
| 2 | Norm | Normative references4 | | | | | |
| 3 | Defir | efinitions5 | | | | | |
| 4 | Gene | eral requirements6 | 3 | | | | |
| | 4.1 | General6 | 3 | | | | |
| | 4.2 | Construction | 3 | | | | |
| | 4.3 | Indicators and alarms7 | | | | | |
| | 4.4 | Fault signals8 | 3 | | | | |
| | 4.5 | Output signal (applicable for type A apparatus only)8 | 3 | | | | |
| | 4.6 | Labelling and instructions8 | 3 | | | | |
| 5 | Test | and performance requirements9 |) | | | | |
| | 5.1 | General requirements for tests |) | | | | |
| | 5.2 | Normal conditions for tests |) | | | | |
| | 5.3 | Test methods and performance requirements11 | I | | | | |
| 6 | Self-contained battery powered apparatus | | | | | | |
| | 6.1 | Battery fault warning | 7 | | | | |
| | 6.2 | Battery capacity17 | 7 | | | | |
| | 6.3 | Battery reversal | 3 | | | | |
| | 6.4 | Battery connections | 3 | | | | |
| Anr | nex A | (informative) Health effects |) | | | | |
| Anr | nex B | (informative) A-deviations | | | | | |

1 Scope

This European Standard specifies general requirements for the construction, testing and performance of electrically operated carbon monoxide gas detection apparatus, designed for continuous operation in domestic premises. The apparatus may be mains or battery powered. Such apparatus is intended to warn of an accumulation of CO, enabling the occupant to react before being exposed to significant risk.

This standard specifies two types of apparatus, these are:

Type A - to provide a visual and audible alarm and an executive action in the form of an output signal that can be used to actuate directly or indirectly a ventilation or other ancillary device.

Type B - to provide a visual and audible alarm only.

This standard excludes apparatus:

- for the detection of combustible gases, other than carbon monoxide itself; (see EN 50194:2000);
- for the detection of CO in industrial installations or commercial premises; (see EN 45544 series);
- for use in boats, caravans or mobile homes;
- for CO measurement for smoke and fire detection (see prEN 12239).

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

| EN 50270 | 1999 | Electromagnetic compatibility - Electrical apparatus for the detection and measurement of combustible gases, toxic gases or oxygen |
|------------|------|--|
| EN 50292 | 2001 | Electrical apparatus for the detection of carbon monoxide in domestic premises – Guide on the selection, installation, use and maintenance |
| EN 60335-1 | 1994 | Safety of household and similar electrical appliances Part 1: General requirements (IEC 60335-1:1991, mod.) |
| EN 60529 | 1991 | Degrees of protection provided by enclosures (IP code) (IEC 60529:1989) |
| EN 60704-1 | 1997 | Household and similar electrical appliances - Test code for the determination of airborne acoustical noise Part 1: General requirements (IEC 60407-1:1997) |