



**BSI Standards Publication**

## **Explosive atmospheres**

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Part 18: Equipment protection by encapsulation "m"

This is a preview of BS EN IEC 60079-18:2025. [Click here to purchase the full version from the ANSI store.](#)

## National foreword

This British Standard is the UK implementation of EN IEC 60079-18:2025. It is identical to IEC 60079-18:2025. It supersedes BS EN 60079-18:2015+A1:2017, which will be withdrawn on 31 October 2028.

The UK participation in its preparation was entrusted to Technical Committee EXL/31, Equipment for explosive atmospheres.

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

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 October 2025.

### Amendments/corrigenda issued since publication

Date	Text affected
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## EUROPÄISCHE NORM

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Supersedes EN 60079-18:2015; EN 60079-18:2015/A1:2017; EN 60079-18:2015/AC:2018-09

English Version

## Explosive atmospheres - Part 18: Equipment protection by encapsulation "m" (IEC 60079-18:2025)

Atmosphères explosives - Partie 18: Protection de l'appareil  
par encapsulage "m"  
(IEC 60079-18:2025)

Explosionsgefährdete Bereiche - Teil 18: Geräteschutz  
durch Vergusskapselung "m"  
(IEC 60079-18:2025)

This European Standard was approved by CENELEC on 2025-07-24. 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 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.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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## European foreword

The text of document 31/1858/FDIS, future edition 5 of IEC 60079-18, prepared by TC 31 "Equipment for explosive atmospheres" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60079-18:2025.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2026-10-31 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2028-10-31 document have to be withdrawn

This document supersedes EN 60079-18:2015 and all of its amendments and corrigenda (if any).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a standardization request addressed to CENELEC by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

## Endorsement notice

The text of the International Standard IEC 60079-18:2025 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standard indicated:

IEC 60079-1	NOTE	Approved as EN 60079-1
IEC 60079-2	NOTE	Approved as EN 60079-2
IEC 60079-5	NOTE	Approved as EN 60079-5
IEC 60079-6	NOTE	Approved as EN 60079-6
IEC 60079-10-1	NOTE	Approved as EN IEC 60079-10-1
IEC 60079-10-2	NOTE	Approved as EN 60079-10-2
IEC 60079-14	NOTE	Approved as EN IEC 60079-14
IEC 60079-26	NOTE	Approved as EN IEC 60079-26
IEC 60079-28	NOTE	Approved as EN 60079-28
IEC 60086-1	NOTE	Approved as EN IEC 60086-1
IEC 60622	NOTE	Approved as EN 60622

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IEC 60747-5-5	NOTE	Approved as EN IEC 60747-5-5
IEC 61951-1	NOTE	Approved as EN 61951-1
IEC 61951-2	NOTE	Approved as EN 61951-2
ISO 13849-1	NOTE	Approved as EN ISO 13849-1

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(normative)

## Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cencenelec.eu](http://www.cencenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60079-0	-	Explosive atmospheres - Part 0: Equipment - General requirements	EN IEC 60079-0	-
IEC 60079-7	-	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"	EN 60079-7	-
IEC 60079-11	-	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"	EN IEC 60079-11	-
IEC 60079-15	-	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"	EN IEC 60079-15	-
IEC 60127	series	Miniature fuses	EN IEC 60127	series
IEC 60243-1	-	Electric strength of insulating materials - Test methods - Part 1: Tests at power frequencies	EN 60243-1	-
IEC 60691	-	Thermal-links - Requirements and application guide	EN IEC 60691	-
IEC 60730-2-9	-	Automatic electrical controls - Part 2-9: Particular requirements for temperature sensing control	EN IEC 60730-2-9	-
IEC 60738-1	-	Thermistors - Directly heated positive temperature coefficient - Part 1: Generic specification	EN IEC 60738-1	-
IEC 61140	-	Protection against electric shock - Common aspects for installation and equipment	EN 61140	-
IEC 61558-1	-	Safety of transformers, reactors, power supply units and combinations thereof - Part 1: General requirements and tests	EN IEC 61558-1	-
IEC 61558-2-6	-	Safety of transformers, reactors, power supply units and combinations thereof - Part 2-6: Particular requirements and tests for safety isolating transformers and power supply units incorporating safety isolating transformers for general applications	EN IEC 61558-2-6	-

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IEC 62326-4-1	-	Printed boards - Part 4: Rigid multilayer printed boards with interlayer connections - Sectional specification - Section 1: Capability detail specification - Performance levels A, B and C	EN 62326-4-1	-
ANSI/UL 248	series	Standard for low-voltage fuses	-	-
ANSI/UL 746A	-	Polymeric Materials - Short Term Property Evaluations	-	-
ANSI/UL 796	-	Printed-Wiring Boards	-	-
IPC-A-600	-	Acceptability of Printed Boards	-	-
IPC-6012	-	Qualification and Performance Specification for Rigid Printed Boards	-	-

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