
Eksplzivne atmosfere - 28. del: Zaščita opreme, ki uporablja optično sevanje, in sistemov za prenos optičnega sevanja (IEC 60079-28:2025)

Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation (IEC 60079-28:2025)

Explosionsgefährdete Bereiche - Teil 28: Schutz von Geräten und Übertragungssystemen, die mit optischer Strahlung arbeiten (IEC 60079-28:2025)

Atmosphères explosives - Partie 28: Protection du matériel et des systèmes de transmission utilisant le rayonnement optique (IEC 60079-28:2025)

Ta slovenski standard je istoveten z: EN IEC 60079-28:2026

ICS:

29.260.20	Električni aparati za eksplozivna ozračja	Electrical apparatus for explosive atmospheres
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SIST EN IEC 60079-28:2026

en,fr,de

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN IEC 60079-28

February 2026

ICS 29.260.20

Supersedes EN 60079-28:2015; EN 60079-28:2015/A11:2024

English Version

**Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
(IEC 60079-28:2025)**

Atmosphères explosives - Partie 28 : Protection du matériel et des systèmes de transmission utilisant le rayonnement optique
(IEC 60079-28:2025)

Explosionsgefährdete Bereiche - Teil 28: Schutz von Geräten und Übertragungssystemen, die mit optischer Strahlung arbeiten
(IEC 60079-28:2025)

This European Standard was approved by CENELEC on 2025-12-26. 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

EN IEC 60079-28:2026 (E)**European foreword**

The text of document 31/1887/FDIS, future edition 3 of IEC 60079-28, prepared by TC 31 "Equipment for explosive atmospheres" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60079-28:2026.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2027-02-28 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2029-02-28 document have to be withdrawn

This document supersedes EN 60079-28:2015 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 is read in conjunction with EN IEC 60079-0.

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.

For the relationship with EU Legislation, see informative Annex ZZ, which is an integral part of this document.

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 60079-28:2025 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 60079-2	NOTE	Approved as EN 60079-2
IEC 60079-10-1	NOTE	Approved as EN IEC 60079-10-1
IEC 60079-10-2	NOTE	Approved as EN 60079-10-2
IEC 60079-31	NOTE	Approved as EN 60079-31
IEC 61508 (series)	NOTE	Approved as EN 61508 (series)
IEC 60825-1	NOTE	Approved as EN 60825-1
IEC 61511 (series)	NOTE	Approved as EN 61511 (series)

Annex ZA (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.

<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	2018
			+ AC	2020-02
			+ A11	2024
IEC 60079-1	-	Explosive atmospheres – Part 1: Equipment protection by flameproof enclosures "d"	EN 60079-1	2014
			+ AC	2018-09
			+ A11	2024
IEC 60079-7	-	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"	EN 60079-7	2015
			+ A1	2018
			+ A11	2024
IEC 60079-11	-	Explosive atmospheres – Part 11: Equipment protection by intrinsic safety "i"	EN 60079-11	2012
IEC 60079-15	-	Explosive atmospheres – Part 15: Equipment protection by type of protection "n"	EN IEC 60079-15	2019
IEC 60825-2	-	Safety of laser products – Part 2: Safety of optical fibre communication systems (OFCS)	EN 60825-2	2004
			+ A1	2007
			+ A2	2010

Annex ZZ (informative)

Relationship between this European Standard and the Essential Requirements of 2014/34/EU [2014 OJ L96] aimed to be covered

This European Standard has been prepared under a Commission's standardization request as regards equipment and protective systems intended for use in potentially explosive atmospheres in support of Directive 2014/34/EU "M/596 C(2023)4798 final" to provide one voluntary means of conforming to the essential health and safety requirements of Directive 2014/34/EU of 26 February 2014 on the harmonisation of the laws of the Member States relating to equipment and protective systems intended for use in potentially explosive atmospheres (recast).

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZZ.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding essential requirements of that Directive, and associated EFTA regulations.

Table ZZ.1 — Correspondence between this European standard and Annex II of Directive 2014/34/EU [2014 OJ L96]

Essential Requirements of 2014/34/EU	Clause(s) / sub-clause(s) of this EN	Remarks / Notes
1.0.1	4.1, 4.2, 4.3, 4.4, 5.1, 5.2, 5.3	
1.0.2	4.1, 4.2, 4.3, 4.4, 5.1, 5.2, 5.3	
1.0.3		Not covered
1.0.4	4.1, 4.2, 4.3, 4.4, 5.1, 5.2, 5.3	
1.0.5	6	
1.0.6	4.3.2, 5.2	
1.1.1		Not covered
1.1.2		Not covered
1.1.3		Not covered
1.2.1	4.1, 4.2, 4.3, 4.4,	
1.2.2	4.1, 4.2, 4.3, 4.4,	
1.2.3		Not covered
1.2.4		Not covered
1.2.5		Not covered
1.2.6		Not covered
1.2.7		Not covered
1.2.8		Not covered
1.2.9		Not covered
1.3.1	4.1, 4.2, 4.3, 4.4, 5.1, 5.2, 5.3	
1.3.2		Not covered
1.3.3		Not covered

Essential Requirements of 2014/34/EU	Clause(s) / sub-clause(s) of this EN	Remarks / Notes
1.3.4.		Not covered
1.3.5.		Not covered
1.4.1.		Not covered
1.4.2.		Not covered
1.5.1		Not covered
1.5.2.		Not covered
1.5.3.		Not covered
1.5.4.		Not covered
1.5.5.		Not covered
1.5.6.		Not covered
1.5.7.		Not covered
1.5.8.		Not covered
1.6.1.		Not covered
1.6.2.		Not covered
1.6.3.		Not covered
1.6.4.		Not covered
1.6.5.		Not covered
2.0.1	4.1, 4.2, 4.3, 4.4, 5.1, 5.2, 5.3	
2.0.2	4.1, 4.2, 4.3, 4.4, 5.1, 5.2, 5.3	
2.1.1.	4.1, 4.2, 4.3, 4.4, 5.1, 5.2, 5.3	
2.1.2.	4.1, 4.2, 4.3, 4.4, 5.1, 5.2, 5.3	
2.2.1	4.1, 4.2, 4.3, 4.4, 5.1, 5.2, 5.3	
2.2.2	4.1, 4.2, 4.3, 4.4, 5.1, 5.2, 5.3	
2.3.1.	4.1, 4.2, 4.3, 4.4, 5.1, 5.2, 5.3	
2.3.2.	4.1, 4.2, 4.3, 4.4, 5.1, 5.2, 5.3	
3.		Not covered

WARNING 1 — Presumption of conformity stays valid only as long as a reference to this European standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

WARNING 2 — Other Union legislation may be applicable to the product(s) falling within the scope of this standard.

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Edition 3.0 2025-11

INTERNATIONAL STANDARD

**Explosive atmospheres -
Part 28: Protection of equipment and transmission systems using optical
radiation**

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