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Responsible committee: EXL/31 Equipment for explosive atmospheres

Interested committees:

Title: BS EN IEC 60079-26 ED5 Explosive atmospheres

Part 26: Equipment with Separation Elements or combined Levels of Protection

Please notify the secretary if you are aware of any keywords that might assist in classifying or identifying the standard or if the content of this standard

- i) has any issues related to 3rd party IPR, patent or copyright
- ii) affects other national standard(s)
- iii) requires additional national guidance or information

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Responsible Committee Secretary: **Mr Christopher Brown (BSI)**Direct tel: **02089967441**E-mail: **christopher.brown@bsigroup.com**

Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

For national standards, comments will be reviewed by the relevant UK national committee and the resulting standards published as a British Standard.

UK Vote

Please indicate whether you consider the UK should submit a negative (with supporting technical reasons) or positive vote on this draft. Please indicate if you are aware of any reason why this draft standard should not be published as a British Standard.

Submission of Comments

- **Annotated drafts are not acceptable and will be rejected.**
- All comments should be submitted online at <https://standardsdevelopment.bsigroup.com/>. You will need to register in order to comment.

Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/Figure/ Table/Note	Type of comment	Commend (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	



31/1758/CD

COMMITTEE DRAFT (CD)

PROJECT NUMBER:

IEC 60079-26 ED5

DATE OF CIRCULATION:

2024-01-12

CLOSING DATE FOR COMMENTS:

2024-05-03

SUPERSEDES DOCUMENTS:

31/1680/RR

IEC TC 31 : EQUIPMENT FOR EXPLOSIVE ATMOSPHERES

SECRETARIAT:

United Kingdom

SECRETARY:

Mr Tom Stack

OF INTEREST TO THE FOLLOWING COMMITTEES:

SC 31M

PROPOSED HORIZONTAL STANDARD:



Other TC/SCs are requested to indicate their interest, if any, in this CD to the secretary.

FUNCTIONS CONCERNED:

☐ EMC

☐ ENVIRONMENT

☐ QUALITY ASSURANCE

☐ SAFETY

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Recipients of this document are invited to submit, with their comments, notification of any local regulations or technical reasons that may exist and should be considered should this proposal proceed, recognizing that failure to address such requirements could result in the need for new or existing "In Some Countries" clauses. (SEE [AC/22/2007](#) OR [NEW GUIDANCE DOC](#)).

TITLE:

Explosive atmospheres - Part 26: Equipment with Separation Elements or combined Levels of Protection

NOTE FROM TC/SC OFFICERS:

As per Decision 2023/15 TC 31 decided to progress the current revision project for Ed 4 as a New Edition rather than an amendment.

As per 5.4 of the IEC/TC 31 GWP this CD is being circulated as a complete text including editing marks to the existing text. This is for ease of understanding of what has been changed, added or removed thus saving time as in the past experts did not realize critical text had been deleted.

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

EXPLOSIVE ATMOSPHERES –

**Part 26: Equipment with Separation Elements
or combined Levels of Protection**

FOREWORD

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International Standard IEC 60079-26 has been prepared by IEC technical committee 31: Equipment for explosive atmospheres.

This fourth edition cancels and replaces the third edition published in 2014 and constitutes a technical revision.

145 This edition includes the following significant changes with respect to the previous edition:

Changes	Clause	Type		
		Minor and editorial changes	Extension	Major technical changes
The scope of the standard was extended for separation elements between all EPLs for gas and dust hazardous areas as well as for non-electrical equipment. The title and the structure of the standard was modified accordingly.	5		x	
The requirements for combined Types of Protection 4.1.2 were restructured and included in Clause 4	4	x		
The requirements for equipment with moving parts was removed and transferred to IEC 60079-0	4.2 (ed. 3)	x		
For equipment with partition walls other than corrosion resistant metals, glass or ceramic the type tests were detailed and the cycling test acc. to IEC TS 60079-40 specified, if they were exposed to constant vibrational stress	7.2			C1
The marking is extended for equipment to be mounted between different Zones	8		x	
The thickness of the partition wall must be specified in the instructions	9	x		
Additional warnings are included in the instructions for equipment with separation elements exposed to abrasive dust flow	9		x	
Table 1 "Separation elements" was moved to Annex A as Table A.1 and modified for clarification	Table A.1	x		
Table A.2 to table A.8 added for the extended separation elements			x	

146

147 NOTE The technical changes referred to include the significance of technical changes in the revised IEC Standard,
148 but they do not form an exhaustive list of all modifications from the previous version.

149 Explanation of the types of changes:

150 A) Definitions

151 1. Minor and editorial changes:

- 152 • Clarification
- 153 • Decrease of technical requirements
- 154 • Minor technical change
- 155 • Editorial corrections

156 These are changes which modify requirements in an editorial or a minor technical way. They
157 include changes of the wording to clarify technical requirements without any technical change,
158 or a reduction in level of existing requirement.

159 2. Extension: Addition of technical options

160 These are changes which add new or modify existing technical requirements, in a way that new
161 options are given, but without increasing requirements for equipment that was fully compliant
162 with the previous standard. Therefore, these will not have to be considered for products in
163 conformity with the preceding edition.

3. Major technical changes:

- addition of technical requirements
- increase of technical requirements

These are changes to technical requirements (addition, increase of the level or removal) made in a way that a product in conformity with the preceding edition will not always be able to fulfil the requirements given in the later edition. These changes have to be considered for products in conformity with the preceding edition. For these changes additional information is provided in clause B below.

NOTE These changes represent current technological knowledge. However, these changes should not normally have an influence on equipment already placed on the market.

B) Information about the background of 'Major technical changes'

~~G1 to ensure that partition walls consisting of materials other than stainless steel, ceramics or glass, which are exposed to pressure or vibrational stress, provide a comparable level of safety, additional endurance tests were included. Reference to tests in IEC TS 60079-40 were considered appropriate.~~

The text of this International Standard is based on the following documents:

FDIS	Report on voting
31/1562/FDIS	31/1564/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 60079 series, published under the general title *Explosive atmospheres*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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