	Súčasti systému ochrany pred bleskom (LPSC) Časť 3: Požiadavky na oddeľovacie iskriská (ISG)	STN EN 62561-3
STN		35 7605

Lightning Protection System Components (LPSC) - Part 3: Requirements for isolating spark gaps (ISG)

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 01/18

Obsahuje: EN 62561-3:2017, IEC 62561-3:2017

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EN 62561-3

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English Version

Lightning Protection System Components (LPSC) - Part 3: Requirements for isolating spark gaps (ISG) (IEC 62561-3:2017)

Composants des systèmes de protection contre la foudre (CSPF) - Partie 3: Exigences pour les éclateurs d'isolement (IEC 62561-3:2017)

Blitzschutzsystembauteile (LPSC) - Teil 3: Anforderungen an Trennfunkenstrecken (IEC 62561-3:2017)

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European foreword

The text of document 81/561/FDIS, future edition 2 of IEC 62561-3, prepared by IEC/TC 81, "Lightning protection", was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62561-3:2017.

The following dates are fixed:

latest date by which this document has to be	(dop)	2018-04-20
implemented at national level		
by publication of an identical		
national standard or by endorsement		
	latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement	implemented at national level by publication of an identical

latest date by which the national standards conflicting (dow) 2020-07-20 with this document have to be withdrawn

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

IEC 60529	NOTE	Harmonized as EN 60529.
IEC 62305-3	NOTE	Harmonized as EN 62305-3.
IEC 62305-4	NOTE	Harmonized as EN 62305-4.
IEC 61643-11	NOTE	Harmonized as EN 61643-11.
IEC 62305-1	NOTE	Harmonized as EN 62305-1.

Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When 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.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u> <u>EN/HD</u>	<u>Year</u>
IEC 60068-2-52	1996	Environmental testing Part 2-52: Tests -EN 60068-2-52	1996
		Test Kb: Salt mist, cyclic (sodium chloride	
		solution)	
IEC 60068-2-75	1997	Environmental testing Part 2-75: Tests -EN 60068-2-75	1997
		Test Eh: Hammer tests	
IEC 62561-1	-	Lightning protection system componentsEN 62561-1	-
		(LPSC) – Part 1: Requirements for	
		connection components	
ISO 4892-2	2006	Plastics - Methods of exposure to-	-
		laboratory light sources - Part-2: Xenon-arc	
		lamps	
ISO 4892-3	2006	Plastics - Methods of exposure to-	-
		laboratory light sources - Part 3:	
		Fluorescent UV lamps	
ISO 4892-4	-	Plastics - Methods of exposure to-	-
		laboratory light sources – Part 4: Open-	
		flame carbon-arc lamps	
ISO 6957	-	Copper alloys Ammonia test for stress-	-
		corrosion resistance	
ISO 6988	1985	Metallic and other non-organic coatings -EN ISO 6988	1994
		Sulfur dioxide test with general	
		condensation of moisture	



IEC 62561-3

Edition 2.0 2017-06

INTERNATIONAL STANDARD

Lightning protection system components (LPSC) – Part 3: Requirements for isolating spark gaps (ISG)





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IEC 62561-3

Edition 2.0 2017-06

INTERNATIONAL STANDARD

Lightning protection system components (LPSC) – Part 3: Requirements for isolating spark gaps (ISG)

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

LIGHTNING PROTECTION SYSTEM COMPONENTS (LPSC) -

Part 3: Requirements for isolating spark gaps (ISG)

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International Standard IEC 62561-3 has been prepared by IEC technical committee 81: Lightning protection.

This second edition cancels and replaces the first edition, published in 2012. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition.

- a) a new classification has been added related to ISGs location installation;
- b) an updated flow chart of tests has been developed.

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

FDIS	Report on voting
81/561/FDIS	81/566/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 62561 series, published under the general title *Lightning* protection system components (LPSC), 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.

A bilingual version of this publication may be issued at a later date.

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INTRODUCTION

This part of IEC 62561 deals with the requirements and tests for lightning protection system components (LPSC), specifically isolating spark gaps (ISG) used for the installation of a lightning protection system (LPS) designed and implemented according to the IEC 62305 series

LIGHTNING PROTECTION SYSTEM COMPONENTS (LPSC) -

Part 3: Requirements for isolating spark gaps (ISG)

1 Scope

This part of IEC 62561 specifies the requirements and tests for isolating spark gaps (ISG) for lightning protection systems.

ISGs can be used to indirectly bond a lightning protection system to other nearby metalwork where a direct bond is not permissible for functional reasons.

Typical applications include the connection to

- · earth-termination systems of power installations,
- · earth-termination systems of telecommunication systems,
- auxiliary earth electrodes of voltage-operated, earth fault circuit breakers,
- rail earth electrode of power and DC railways,
- · measuring earth electrodes for laboratories,
- · installations with cathodic protection and stray current systems,
- service entry masts for low-voltage overhead cables,
- bypassing insulated flanges and insulated couplings of pipelines.

This does not cover applications where follow currents occur.

NOTE Lightning protection system components (LPSC) can also be suitable for use in hazardous conditions such as fire and explosive atmosphere. Due regard will be taken of the extra requirements necessary for the components to be installed in such conditions.

2 Normative references

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.

IEC 60068-2-52:1996, Environmental testing – Part 2-52: Tests – Test Kb: Salt mist, cyclic (sodium chloride solution)¹

IEC 60068-2-75:1997, Environmental testing – Part 2-75: Tests – Test Eh: Hammer tests²

^{1 2}nd edition (1996). A 3rd edition IEC 60068-2-52: Environmental testing - Part 2-52: Tests - Test Kb: Salt mist, cyclic (sodium chloride solution) is under preparation. Stage at the time of publication: IEC PRVC 60068-2-52:2017.

^{2 1&}lt;sup>st</sup> edition (1997). This 1st edition was replaced in 2014 by a 2nd edition IEC 60068-2-75:2014, Environmental testing – Part 2-75: Tests – Test Eh: Hammer tests.

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ISO 4892-2:2006, Plastics – Methods of exposure to laboratory light sources – Part 2: Xenonarc lamps³

IEC 62561-1, Lightning protection system components (LPSC) – Part 1: Requirements for connection components

ISO 4892-3:2006, Plastics – Methods of exposure to laboratory light sources – Part 3: Fluorescent UV lamps⁴

ISO 4892-4, Plastics – Methods of exposure to laboratory light sources – Part 4: Open-flame carbon-arc lamps

ISO 6957:1988, Copper alloys – Ammonia test for stress corrosion resistance

ISO 6988:1985, Metallic and other non-organic coatings – Sulphur dioxide test with general condensation of moisture

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