

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Lightning protection system components (LPSC)
Part 6: Requirements for lightning strike counter (LSCs)**

**Composants des systèmes de protection contre la foudre (CSPF) –
Partie 6: Exigences pour les compteurs de coups de foudre (LSC)**



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CONTENTS

FOREWORD.....	4
INTRODUCTION.....	6
1 Scope.....	7
2 Normative references	7
3 Terms and definitions	8
4 Classification.....	9
4.1 Type of LSC.....	9
4.2 LSC Internal circuit.....	9
4.3 LSC installation location	9
5 Requirements.....	10
5.1 General.....	10
5.2 Documentation.....	10
5.3 Marking.....	10
5.3.1 Content of marking	10
5.3.2 Durability and legibility.....	11
5.4 Design	11
6 Tests.....	12
6.1 General test conditions	12
6.1.1 General	12
6.1.2 Impulse discharge current count for LSC Type I.....	12
6.1.3 Nominal discharge current count for LSC Type II.....	13
6.2 Documentation and installation instructions.....	14
6.2.1 General conditions.....	14
6.2.2 Acceptance criteria	14
6.3 Marking test.....	14
6.3.1 General test conditions	14
6.3.2 Acceptance criteria	14
6.4 Ultraviolet (UV) light resistance.....	14
6.4.1 General test conditions	14
6.4.2 Acceptance criteria	14
6.5 Resistance to corrosion (for metallic parts).....	15
6.5.1 General test conditions	15
6.5.2 Acceptance criteria	15
6.6 Impact test.....	15
6.6.1 General test conditions	15
6.6.2 Acceptance criteria	16
6.7 Index of protection confirmation (IP Code)	16
6.8 Electrical tests	16
6.8.1 General test conditions	16
6.8.2 Minimum discharge current counting test.....	16
6.8.3 Threshold current test.....	17
6.8.4 Maximum impulse current counting test	18
6.8.5 Performance verification test	18
7 Electromagnetic compatibility (EMC)	18
7.1 Electromagnetic immunity	18
7.2 Electromagnetic emission	19

8	Structure and content of the test report.....	19
8.1	General.....	19
8.2	Report identification.....	19
8.3	Specimen description.....	19
8.4	Standards and references.....	20
8.5	Test procedure.....	20
8.6	Testing equipment description.....	20
8.7	Measuring instruments description.....	20
8.8	Results and parameters recorded.....	20
8.9	Statement of pass/fail.....	20
Annex A	(normative) Resistance to UV light.....	21
A.1	General.....	21
A.2	Test.....	21
A.3	First alternative test to Clause A.2.....	21
A.4	Second alternative test to Clause A.2.....	21
Annex B	(normative) Resistance to corrosion tests for LSCs.....	22
B.1	General.....	22
B.2	Salt mist test.....	22
B.3	Humid sulphurous atmosphere test.....	22
B.4	Ammonia atmosphere treatment.....	22
Annex C	(normative) Flowchart for testing LSCs.....	23
Annex D	(normative) Applicability of previous tests.....	24
	Bibliography.....	25
	Figure C.1 – Flowchart for testing of LSCs.....	23
	Table 1 – Preferred parameters for impulse discharge currents counted (I_{imp}).....	13
	Table 2 – Preferred parameters for nominal discharge currents counted (I_n).....	13
	Table D.1 – Differences in the requirements for LSCs complying with IEC 62561-6:2011 or IEC 62561-6:2018.....	24

INTERNATIONAL ELECTROTECHNICAL COMMISSION

LIGHTNING PROTECTION SYSTEM COMPONENTS (LPSC) –

Part 6: Requirements for lightning strike counters (LSCs)

FOREWORD

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IEC 62561-6 has been prepared by IEC technical committee 81: Lightning protection. It is an International Standard.

This third edition cancels and replaces the second edition published in 2018. This edition constitutes a technical revision.

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

- a) a new classification according to the internal circuit of LSCs has been added;
- b) the tests flowchart in Annex C has been updated to reflect this new classification;
- c) the applicability of previous tests has been added (Annex D).

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

FDIS	Report on voting
81/723/FDIS	81/726/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

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 webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
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- amended.

INTRODUCTION

This part of IEC 62561 deals with the requirements and tests for lightning protection system components (LPSC) used to determine the number of impulses or nominal currents on specific conductors associated with a lightning protection system (LPS) designed and implemented according to the IEC 62305 series.

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LIGHTNING PROTECTION SYSTEM COMPONENTS (LPSC) –

Part 6: Requirements for lightning strike counters (LSCs)

1 Scope

This part of IEC 62561 specifies the requirements and tests for devices intended to count the number of lightning strikes based on the current flowing in a conductor. This conductor can be part of a lightning protection system (LPS) or connected to an SPD installation on other conductors, which are not intended to conduct a significant portion of lightning currents.

Extra requirements for the components can be necessary for LSCs intended for use in hazardous atmospheres.

NOTE In CENELEC member countries, testing requirements of components for explosive atmospheres are specified in CLC/TS 50703-2.

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 60068-2-52:2017, *Environmental testing – Part 2-52: Tests – Test Kb: Salt mist, cyclic (sodium, chloride solution)*

IEC 60068-2-75:2014, *Environmental testing – Part 2-75: Tests – Test Eh: Hammer tests*

IEC 60529, *Degrees of protection provided by enclosures (IP Code)*

IEC 61000-6-2, *Electromagnetic compatibility (EMC) – Part 6-2: Generic standards – Immunity standard for industrial environments*

IEC 61000-6-4, *Electromagnetic compatibility (EMC) – Part 6-4: Generic standards – Emission standard for industrial environments*

ISO 4892-2:2013, *Plastics – Methods of exposure to laboratory light sources – Part 2: Xenon-arc lamps*

ISO 4892-3:2016, *Plastics – Methods of exposure to laboratory light sources – Part 3: Fluorescent UV lamps*

ISO 4892-4:2013, *Plastics – Methods of exposure to laboratory light sources – Part 4: Open-flame, carbon-arc lamps*

ISO 22479:2019, *Corrosion of metals and alloys – Sulphur dioxide test in a humid atmosphere (fixed gas method)*

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