

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

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**Lightning protection system components (LPSC) –  
Part 6: Requirements for lightning strike counters (LSC)**

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



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# INTERNATIONAL ELECTROTECHNICAL COMMISSION

## LIGHTNING PROTECTION SYSTEM COMPONENTS (LPSC) –

### Part 6: Requirements for lightning strike counters (LSC)

#### FOREWORD

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

This second edition cancels and replaces the first edition published in 2011. This edition constitutes a technical revision.

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

- a) removal of previous classification and introduction of a simple division into Type I for impulses (direct lightning current detection) and Type II for lightning surge current detection, with appropriate testing for each type;
- b) modification and addition of terms and definitions;
- c) addition of a new Annex C (tests flow chart).

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

FDIS	Report on voting
81/575/FDIS	81/578/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- withdrawn,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.

## INTRODUCTION

This part of IEC 62561 deals with the requirements and tests for lightning protection system components (LPSC) that may be 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 IEC 62305 series of standards.

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## LIGHTNING PROTECTION SYSTEM COMPONENTS (LPSC) –

### Part 6: Requirements for lightning strike counters (LSC)

#### 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 may be part of a lightning protection system (LPS) or connected to an SPD installation or other conductors, which are not intended to conduct a significant portion of lightning currents.

LSCs may also be suitable for use in hazardous atmospheres and there are therefore 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)*

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

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

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

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

#### 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

##### 3.1

##### **lightning strike counter**

##### **LSC**

device intended to count the number of lightning strikes based on current flowing in a conductor