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| <b>STN</b> | <b>Súčasti systému ochrany pred bleskom (LPSC)<br/>Časť 6: Požiadavky na počítadlá zásahov blesku<br/>(LSC)</b> | <b>STN<br/>EN IEC 62561-6</b><br><br>35 7605 |
|------------|---|--|

Lightning protection system components (LPSC) - Part 6: Requirements for lightning strike counters (LSCs)

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. 08/23

Obsahuje: EN IEC 62561-6:2023, IEC 62561-6:2023

Oznámením tejto normy sa od 19.09.2026 ruší  
STN EN IEC 62561-6 (35 7605) zo septembra 2018

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EUROPEAN STANDARD

**EN IEC 62561-6**

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2023

ICS 29.020; 91.120.40

Supersedes EN IEC 62561-6:2018; EN IEC 62561-6:2018/AC:2018-04

English Version

**Lightning protection system components (LPSC) - Part 6:  
Requirements for lightning strike counters (LSCs)  
(IEC 62561-6:2023)**

Composants des systèmes de protection contre la foudre  
(CSPF) - Partie 6: Exigences pour les compteurs de coups  
de foudre (LSC)  
(IEC 62561-6:2023)

Blitzschutzsystembauteile (LPSC) - Teil 6: Anforderungen  
an Blitzzähler (LSC)  
(IEC 62561-6:2023)

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## EN IEC 62561-6:2023 (E)

### European foreword

The text of document 81/723/FDIS, future edition 3 of IEC 62561-6, prepared by IEC/TC 81 "Lightning protection" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62561-6:2023.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2024-03-19 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2026-09-19 document have to be withdrawn

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The text of the International Standard IEC 62561-6:2023 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 61180          | NOTE | Approved as EN 61180          |
| IEC 62305 (series) | NOTE | Approved as EN 62305 (series) |
| IEC 62475          | NOTE | Approved as EN 62475          |

## 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](http://www.cencenelec.eu).

| <u>Publication</u> | <u>Year</u> | <u>Title</u>  | <u>EN/HD</u>      | <u>Year</u> |
|--------------------|-------------|---|-------------------|-------------|
| IEC 60068-2-52     | 2017        | Environmental testing - Part 2-52: Tests - Test Kb: Salt mist, cyclic (sodium, chloride solution)                 | EN IEC 60068-2-52 | 2018        |
| IEC 60068-2-75     | 2014        | Environmental testing - Part 2-75: Tests - Test Eh: Hammer tests  | EN 60068-2-75     | 2014        |
| 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 | EN IEC 61000-6-2  | -           |
| IEC 61000-6-4      | -           | Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments | EN IEC 61000-6-4  | -           |
| ISO 4892-2         | 2013        | Plastics - Methods of exposure to laboratory light sources - Part 2: Xenon-arc lamps                              | EN ISO 4892-2     | 2013        |
| ISO 4892-3         | 2016        | Plastics - Methods of exposure to laboratory light sources - Part 3: Fluorescent UV lamps                         | EN ISO 4892-3     | 2016        |
| 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)                    | EN ISO 22479      | 2022        |
| ISO 6957           | 1988        | Copper alloys; ammonia test for stress corrosion resistance   | -                 | -           |



IEC 62561-6

Edition 3.0 2023-05

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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**Lightning protection system components (LPSC) –  
Part 6: Requirements for lightning strike counters (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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IEC 62561-6

Edition 3.0 2023-05

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

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

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

INTERNATIONAL  
ELECTROTECHNICAL  
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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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### **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](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/standardsdev/publications](http://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](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) 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.

## 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 or 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*