

SLOVENSKI STANDARD

SIST EN IEC 61757-1-1:2020

01-julij-2020

Nadomešča:

SIST EN 61757-1-1:2017

Optični senzorji - 1-1. del: Merjenje deformacij - Zaznavala deformacij na podlagi optovlakenskih Braggovih rešetk (IEC 61757-1-1:2020)

Fibre optic sensors - Part 1-1: Strain measurement - Strain sensors based on fibre Bragg gratings (IEC 61757-1-1:2020)

Lichtwellenleistersensoren - Teil 1-1: Dehnungsmessungen - Dehnungssensoren basierend auf Faser-Bragg-Gitter (IEC 61757-1-1:2020)

Capteurs à fibres optiques - Partie 1-1: Mesure de déformation - Capteurs de déformation basés sur des réseaux de Bragg à fibres (IEC 61757-1-1:2020)

Ta slovenski standard je istoveten z: EN IEC 61757-1-1:2020

<https://standards.iteh.ai/catalog/standards/sist/14e279b8-a728-4f90-b11c-74e8ae6545e4/sist-en-iec-61757-1-1-2020>

ICS:

33.180.99	Druga oprema za optična vlakna	Other fibre optic equipment
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SIST EN IEC 61757-1-1:2020

en

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN IEC 61757-1-1

May 2020

ICS 33.180.99

Supersedes EN 61757-1-1:2017 and all of its
amendments and corrigenda (if any)

English Version

**Fibre optic sensors - Part 1-1: Strain measurement - Strain
sensors based on fibre Bragg gratings
(IEC 61757-1-1:2020)**

Capteurs fibroniques - Partie 1-1: Mesure de déformation -
Capteurs de déformation basés sur des réseaux de Bragg à
fibres
(IEC 61757-1-1:2020)

Lichtwellenleitersensoren - Teil 1-1: Dehnungsmessungen -
Dehnungssensoren basierend auf Faser-Bragg-Gitter
(IEC 61757-1-1:2020)

This European Standard was approved by CENELEC on 2020-05-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 61757-1-1:2020 (E)**European foreword**

The text of document 86C/1642/FDIS, future edition 2 of IEC 61757-1-1, prepared by SC 86C "Fibre optic systems and active devices" of IEC/TC 86 "Fibre optics" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61757-1-1:2020.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2021-02-01
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2023-05-01

This document supersedes EN 61757-1-1:2017 and all of its amendments and corrigenda (if any).

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The text of the International Standard IEC 61757-1-1:2020 was approved by CENELEC as a European Standard without any modification. <https://standards.itih.ai/catalog/standards/sist/14e279b8-a728-4f90-b11c-74e8ae6545e4/sist-en-iec-61757-1-1-2020>

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

IEC 60793-1-30	NOTE	Harmonized as EN 60793-1-30
IEC 60793-1-31	NOTE	Harmonized as EN IEC 60793-1-31
IEC 60793-1-33	NOTE	Harmonized as EN 60793-1-33
ISO 527-4	NOTE	Harmonized as EN ISO 527-4
ISO 7500-1	NOTE	Harmonized as EN ISO 7500-1
ISO 14125	NOTE	Harmonized as EN ISO 14125

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.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050	series	International Electrotechnical Vocabulary	-	-
IEC 60068-2	series	Environmental testing - Part 2: Tests	EN 60068-2	series
IEC 60793-2	-	Optical fibres - Part 2: Product specifications - General	EN IEC 60793-2	-
IEC 60793-2-50	-	Optical fibres - Part 2-50: Product specifications - Sectional specification for class B single-mode fibres	EN IEC 60793-2-50	-
IEC 61300-2	series	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2: Tests	EN 61300-2	series
IEC 61754	series	Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces	EN 61754	series
IEC 61757	-	Fibre optic sensors - Generic specification	EN IEC 61757	-
IEC/TR 61931	-	Fibre optic - Terminology	-	-
IEC 62129-1	-	Calibration of wavelength/optical frequency measurement instruments - Part 1: Optical spectrum analyzers	EN 62129-1	-
IEC 62129-2	-	Calibration of wavelength/optical frequency measurement instruments - Part 2: Michelson interferometer single wavelength meters	EN 62129-2	-
IEC 62129-3	-	Calibration of wavelength/optical frequency measurement instruments - Part 3: Optical frequency meters internally referenced to a frequency comb	EN IEC 62129-3	-

EN IEC 61757-1-1:2020 (E)

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
ISO/IEC Guide 99	-	International vocabulary of metrology - - Basic and general concepts and associated terms (VIM)		-

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IEC 61757-1-1

Edition 2.0 2020-03

INTERNATIONAL STANDARD

NORME INTERNATIONALE



Fibre optic sensors –
Part 1-1: Strain measurement – Strain sensors based on fibre Bragg gratings

Capteurs fibroniques –
Partie 1-1: Mesure de déformation – Capteurs de déformation basés
sur des réseaux de Bragg à fibres

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