SLOVENSKI STANDARD
SIST EN IEC 61757-6-1:2024

01-april-2024

Optični senzorji - 6-1. del: Merjenje premikov - Zaznavala premikov na podlagi vlakenske Braggove uklonske mrežice (IEC 61757-6-1:2024)

Fibre optic sensors - Part 6-1: Displacement measurement - Displacement sensors based on fibre Bragg gratings (IEC 61757-6-1:2024)

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Capteurs fibroniques - Partie 6-1: Mesure de déplacement - Capteurs de déplacement basés sur des réseaux de bragg sur fibre (IEC 61757-6-1:2024)

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ICS:

33.180.99	Druga oprema za optična vlakna	Other fibre optic equipment

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN IEC 61757-6-1

March 2024

ICS 33.180.99

English Version

Fibre optic sensors - Part 6-1: Displacement measurement - Displacement sensors based on fibre Bragg gratings (IEC 61757-6-1:2024)

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Europäisches Komitee für Elektrotechnische Normung

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European foreword

The text of document 86C/1874/CDV, future edition 1 of IEC 61757-6-1, 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 61757-6-1:2024.

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) 2024-11-23
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2027-02-23

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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.

Publication	Year	Title	EN/HD	Year
IEC 60068-2	series	Environmental testing - Part 2-X: Tests	EN IEC 60068-2	series[1]
IEC 61300-2	series	Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-X: Tests	EN IEC 61300-2	series
IEC 61754	series	Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces	EN IEC 61754	series
IEC 61757	-	Fibre optic sensors - Generic specification	EN IEC 61757	-
IEC 61757-1-1	2020	Fibre optic sensors - Part 1-1: Strain measurement - Strain sensors based on fibre Bragg gratings	EN IEC 61757-1-1	2020
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	-
ISO/IEC Guide 98-3	-	Uncertainty of measurement - Part 3: Guide to the expression of uncertainty in measurement (GUM:1995)	-	-

[1] The ENs referred to in this series are limited to those corresponding to the IEC standards still in force. Moreover, some IEC standards in this series do not currently have a corresponding EN; for these standards the IEC standard only is here intended to be referred to.

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

Fibre optic sensors – Part 6-1: Displacement measurement – Displacement sensors based on fibre Bragg gratings

Capteurs fibroniques – Partie 6-1: Mesure de déplacement – Capteurs de déplacement basés sur des réseaux de Bragg sur fibre

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FIBRE OPTIC SENSORS –

Part 6-1: Displacement measurement – Displacement sensors based on fibre Bragg gratings

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IEC 61757-6-1 has been prepared by subcommittee 86C: Fibre optic systems and active devices, of IEC technical committee 86: Fibre optics. It is an International Standard.

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

Draft	Report on voting
86C/1874/CDV	86C/1891/RVC

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.