
Optični senzorji - 1-4. del: Merjenje deformacij - Porazdeljeno zaznavanje na podlagi Rayleighovega sipanja (IEC 61757-1-4:2025)

Fibre optic sensors - Part 1-4: Strain measurement - Distributed sensing based on Rayleigh scattering (IEC 61757-1-4:2025)

Glasfasersensoren - Teil 1-4: Dehnungsmessung - Verteilte Sensorik auf Basis der Rayleigh-Streuung (IEC 61757-1-4:2025)

Capteurs fibroniques - Partie 1-4: Mesure de déformation - Détection répartie basée sur la diffusion de rayleigh (IEC 61757-1-4:2025)

Ta slovenski standard je istoveten z: **EN IEC 61757-1-4:2026**

ICS:

33.180.99	Druga oprema za optična vlakna	Other fibre optic equipment
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EUROPEAN STANDARD
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EN IEC 61757-1-4

February 2026

ICS 33.180.99

English Version

**Fibre optic sensors - Part 1-4: Strain measurement - Distributed sensing based on Rayleigh scattering
(IEC 61757-1-4:2025)**

Capteurs fibroniques - Partie 1-4: Mesure de déformation -
Détection répartie basée sur la diffusion de Rayleigh
(IEC 61757-1-4:2025)

Glasfasersensoren - Teil 1-4: Dehnungsmessung - Verteilte
Sensorik auf Basis der Rayleigh-Streuung
(IEC 61757-1-4:2025)

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EN IEC 61757-1-4:2026 (E)**European foreword**

The text of document 86C/1972/CDV, future edition 1 of IEC 61757-1-4, prepared by SC 86C "Fibre optic systems, sensing and active devices" of IEC/TC 86 "Fibre optics" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61757-1-4:2026.

The following dates are fixed:

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

IEC 60869-1	NOTE	Approved as EN IEC 60869-1
IEC 60793-2-50	NOTE	Approved as EN IEC 60793-2-50

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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61757	-	Fibre optic sensors - Generic specification	EN IEC 61757	-
IEC 61757-1-2	2023	Fibre optic sensors - Part 1-2: Strain measurement - Distributed sensing based on Brillouin scattering	EN IEC 61757-1-2	2023
IEC 61757-2-2	-	Fibre optic sensors - Part 2-2: Temperature measurement - Distributed sensing	EN 61757-2-2	-
IEC 61757-3-2	-	Fibre optic sensors - Part 3-2: Acoustic sensing and vibration measurement - Distributed sensing	EN IEC 61757-3-2	-
ISO/IEC Guide 98-3	-	Uncertainty of measurement - Part 3: Guide to the expression of uncertainty in measurement (GUM:1995)	-	-

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INTERNATIONAL STANDARD

**Fibre optic sensors -
Part 1-4: Strain measurement - Distributed sensing based on Rayleigh scattering**

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