

Irish Standard I.S. EN 61757-1-1:2017

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

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I.S. EN 61757-1-1:2017

Incorporating amendments/corrigenda/National Annexes issued since publication:

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I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

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National Foreword

I.S. EN 61757-1-1:2017 is the adopted Irish version of the European Document EN 61757-1-1:2017, Fibre optic sensors - Part 1-1: Strain measurement - Strain sensors based on fibre Bragg gratings

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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EUROPEAN STANDARD

EN 61757-1-1

NORME EUROPÉENNE EUROPÄISCHE NORM

February 2017

ICS 33.180.99

English Version

Fibre optic sensors - Part 1-1: Strain measurement - Strain sensors based on fibre Bragg gratings (IEC 61757-1-1:2016)

Capteurs à fibres optiques - Partie 1-1: Mesure de déformation - Capteurs de déformation basés sur des réseaux de Bragg à fibres (IEC 61757-1-1:2016) LWL¬-Sensoren - Teil 1-1: Zugmessungen - Zugsensoren basierend auf Faser-Bragg-Gatter (IEC 61757-1-1:2016)

This European Standard was approved by CENELEC on 2016-03-31. 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: Avenue Marnix 17, B-1000 Brussels

EN 61757-1-1:2017

European foreword

The text of document 86C/1322/CDV, future edition 1 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 61757-1-1:2017.

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)	2017-08-17
•	latest date by which the national standards conflicting with the document have to be withdrawn	(dow)	2020-02-17

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

This publication is to be read in conjunction with EN 61757-1:2012.

Endorsement notice

The text of the International Standard IEC 61757-1-1:2016 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 standards indicated:

IEC 60793-1-30	NOTE	Harmonized as EN 60793-1-30.
IEC 60793-1-31	NOTE	Harmonized as EN 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.

EN 61757-1-1:2017

Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When 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>	EN/HD	<u>Year</u>
IEC 60050	series	International Electrotechnical Vocabulary	-	series
		Part_102: Mathematics General concepts		
		and linear algebra		
IEC 60068-2	series	Environmental testing Part 2: Tests	EN 60068-2	series
IEC 60793-2	-	Optical fibres - Part 2: Product specifications	s EN 60793-2	-
		- General		
IEC 60874-1	-	Fibre optic interconnecting devices and	EN 60874-1	-
		passive components - Connectors for optical	al	
		fibres and cables Part 1: Generic		
		specification		
IEC 61300-2	series	Fibre optic interconnecting devices and	-	series
		passive components - Basic test and		
		measurement procedures Part 2-1: Tests	-	
		Vibration (sinusoidal)		
IEC 61757-1	2012	Fibre optic sensors Part 1: Generic	EN 61757-1	2012
IEO 00400 4		specification	EN 00400 4	
IEC 62129-1	-	Calibration of wavelength/optical frequency	EN 62129-1	-
		measurement instruments - Part 1: Optical		
IEC 60400 0		spectrum analyzers	EN 60400 0	
IEC 62129-2	-	Calibration of wavelength/optical frequency	EN 62129-2	-
		measurement instruments Part 2:		
		Michelson interferometer single wavelength meters		
IEC/TR 61931				
IEC/TS 62129-3	-	Fibre optic - Terminology Calibration of wavelength/optical frequency	-	-
160/13 02129-3	-	measurement instruments - Part 3: Optical	-	-
		frequency meters using optical frequency		
		combs		
ISO/IEC Guide 99	_	International vocabulary of metrology - Basi	C-	_
ICO/ILO Guide 99		and general concepts and associated terms		
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