



BSI Standards Publication

Small craft — Electrical/electronic control systems for steering, shift and throttle

National foreword

This British Standard is the UK implementation of EN ISO 25197:2020/A11:2023. It is identical to ISO 25197:2020, incorporating amendment 1:2022. It supersedes BS EN ISO 25197:2020, which is withdrawn.

The start and finish of text introduced or altered by amendment A11 is indicated in the text by tags. Tags indicating changes to CEN text carry the number of the CEN amendment. For example, text altered by CEN amendment A11 is indicated by A11 A11.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to ISO text carry the number of the ISO amendment. For example, text altered by ISO amendment 1 is indicated by A1 A1.

The UK participation in its preparation was entrusted to Technical Committee GME/33, Small craft.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Amendments/corrigenda issued since publication

Date	Text affected
30 November 2022	Implementation of ISO amendment 1:2022 with CEN endorsement A1:2022
31 July 2023	Implementation of CEN amendment A11:2023

English Version

Small craft - Electrical/electronic control systems for steering, shift and throttle (ISO 25197:2020)

Petits navires - Systèmes électriques/
électroniques pour le contrôle de la direction,
de l'inverseur et des gaz (ISO 25197:2020)

Kleine Wasserfahrzeuge - Elektrische/
elektronische Regelungssysteme für Steuerung,
Schaltung und Antrieb (ISO 25197:2020)

This European Standard was approved by CEN on 7 March 2020.

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European foreword

This document (EN ISO 25197:2020) has been prepared by Technical Committee ISO/TC 188 "Small craft" in collaboration with CCMC.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2020, and conflicting national standards shall be withdrawn at the latest by October 2020.

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

This document supersedes EN ISO 25197:2018.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

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Endorsement notice

The text of ISO 25197:2020 has been approved by CEN as EN ISO 25197:2020 without any modification.

European foreword to Amendment 1

This document (EN ISO 25197:2020/A1:2022) has been prepared by Technical Committee ISO/TC 188 "Small craft" in collaboration with Technical Committee CEN/TC 464 "Small Craft" the secretariat of which is held by SIS.

This Amendment to the European Standard EN ISO 25197:2020 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2023, and conflicting national standards shall be withdrawn at the latest by May 2023.

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Endorsement notice to Amendment 1

The text of ISO 25197:2020/Amd 1:2022 has been approved by CEN as EN ISO 25197:2020/A1:2022 without any modification.

European foreword to Amendment A11

This document (EN ISO 25197:2020/A11:2023) has been prepared by Technical Committee CEN/TC 464 “Small Craft” the secretariat of which is held by SIS.

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Annex ZA (informative)

Relationship between this European Standard and the essential requirements of Directive 2013/53/EU aimed to be covered

This European Standard has been prepared under a Commission's standardization request M/542/C(2015) 8736 final to provide one voluntary means of conforming to essential requirements of Directive 2013/53/EU.

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZA.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding essential requirements of that Directive, and associated EFTA regulations.

Table ZA.1 — Correspondence between this European Standard and Annex I and II of Directive 2013/53/EU

Essential Requirements of Directive 2013/53/EU	Clause(s)/sub-clause(s) of this EN	Remarks/Notes
Annex I, sub clause 2.5 Owner's manual	4.7,4.11,12	These clauses specify the information to be included in the owner's manual.
Annex I, 5.4 Steering system 5.4.1 General	10.2	In respect of transmission of steering loads in all foreseeable conditions.
Annex I, 5.4 Steering system 5.4.2 Emergency arrangements	9.1.4	In respect of single engine non-sailing craft with remote rudder steering only.
Annex II (3) - Steering wheels, steering mechanisms and cable assemblies	10.2	In respect of the transmission of steering loads in for electric/electronic steering systems supplied as components only

Table ZA.2 — Applicable Standards to confer presumption of conformity as described in this Annex ZA

Column 1 Reference in Clause 2	Column 2 International Standard Edition	Column 3 Title	Column 4 Corresponding European Standard Edition
ISO 48921:2016	ISO 48921:2016	Plastics — Methods of exposure to laboratory light sources — Part 1: General guidance	For applicable standard edition see column 2
ISO 48922:2013	ISO 48922:2013	Plastics — Methods of exposure to laboratory light sources — Part 2: Xenon-arc lamps	For applicable standard edition see column 2
ISO 48923:2016	ISO 48923:2016	Plastics — Methods of exposure to laboratory light sources — Part 3: Fluorescent UV lamps	For applicable standard edition see column 2
ISO 48924:2013	ISO 48924:2013	Plastics — Methods of exposure to laboratory light sources — Part 4: Open-flame carbonarc lamps	For applicable standard edition see column 2
ISO 8846:1990	ISO 8846:1990	Small craft — Electrical devices — Protection against ignition of surrounding flammable gases	EN ISO 8846:2017
ISO 8848:2022	ISO 8848:2022	Small craft — Remote steering systems	EN ISO 8848:2022
ISO 10592:2022	ISO 10592:2022	Small craft — Hydraulic steering system	EN ISO 10592:2022
ISO 13297:2020	ISO 13297:2020	Small craft — Electrical systems — Alternating current installations	EN ISO 13297:2021
ISO 13297:2020 ISO 13297:2020/A md 1:2022	ISO 13297:2020 ISO 13297:2020/A md 1:2022	Small craft - Electrical systems - Alternating and direct current installations - Amendment 1	EN ISO 13297:2021 EN ISO 13297:2021/A1:2022
ISO 167502:2012	ISO 167502:2012	Road vehicles — Environmental conditions and testing for electrical and electronic equipment — Part 2: Electrical loads	For applicable standard edition see column 2
ISO 167503:2012	ISO 167503:2012	Road vehicles — Environmental conditions and testing for electrical and electronic equipment — Part 3: Mechanical loads	For applicable standard edition see column 2
ISO	ISO	Road vehicles — Environmental	For applicable

167504:2010	167504:2010	conditions and testing for electrical and electronic equipment — Part 4: Climatic loads	standard edition see column 2
ASTM B117:2016	-	Practice for operating salt spray (fog) apparatus	-
IEC 60068-2-27:2008	IEC 60068-2-27:2008	Environmental testing — Part 2-27: Tests — Test Ea and guidance: Shock	EN 60068-2-27:2009
IEC 60068-2-52:2017	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 60945:2002	IEC 60945:2002	Maritime navigation and radiocommunication equipment and systems — General requirements — Methods of testing and required test results	EN 60945:2002
IEC 61000-4-2:2008	IEC 61000-4-2:2008	Electromagnetic compatibility (EMC) — Part 4: Testing and measurement techniques — Section 2: Electrostatic discharge immunity test — Basic EMC publication	EN 61000-4-2:2009
IEC 61000-4-3:2020	IEC 61000-4-3:2020	Electromagnetic compatibility (EMC) — Part 4-3: Testing and measurement techniques — Radiated, radio frequency, electromagnetic field immunity test	EN IEC 61000-4-3:2020
IEC 61000-4-4:2012	IEC 61000-4-4:2012	Electromagnetic compatibility (EMC) — Part 4: Testing and measurement techniques — Section 4: Electrical fast transient/burst immunity test — Basic EMC publication	EN 61000-4-4:2012
IEC 61000-4-5:2014 IEC 61000-4-5:2014+Amd1:2017	IEC 61000-4-5:2014 IEC 61000-4-5:2014+Amd1:2017	Electromagnetic compatibility (EMC) — Part 4: Testing and measurement techniques — Section 5: Surge immunity test	EN 61000-4-5:2014 EN 61000-4-5:2014/A1:2017
IEC 61000-4-6:2013	IEC 61000-4-6:2013	Electromagnetic compatibility (EMC) — Part 4: Testing and measurement techniques — Section 6: Immunity to conducted disturbances, induced by radio-frequency fields	EN 61000-4-6:2014
IEC 61000-4-	IEC 61000-4-	Electromagnetic compatibility	EN IEC 61000-4-

11:2020	11:2020	(EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current up to 16 A per phase	11:2020
IEC 61000-4-16:2015	IEC 61000-4-16:2015	Electromagnetic compatibility (EMC) — Part 4: Testing and measurement techniques — Test for immunity to conducted, common mode disturbance in the frequency range 0 Hz to 150 KHz	

The documents listed in the Column 1 of Table ZA.2, in whole or in part, are normatively referenced in this document, i.e. are indispensable for its application. The achievement of the presumption of conformity is subject to the application of the edition of Standards as listed in Column 4 or, if no European Standard Edition exists, the International Standard Edition given in Column 2 of Table ZA.2.

WARNING 1 — Presumption of conformity stays valid only as long as a reference to this European Standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

WARNING 2 — Other Union legislation may be applicable to the product(s) falling within the scope of this standard. A11