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Ships and marine technology — Marine gyro-compasses

Navires et technologie maritime — Compas gyroscopiques à usage marin

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

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This document was prepared by Technical Committee ISO/TC 8, *Ships and marine technology*, Subcommittee SC 6, *Navigation and ship operations*.

This fourth edition cancels and replaces the third edition (ISO 8728:2014), which has been technically revised.

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The main changes are as follows:

- in Clause 4 (abbreviated terms) has been added;
- in 6.3, requirements related to bridge alert management have been added;
- in 7.1, a requirement for display equipment has been added;
- in 7.12, test method for requirements related to bridge alert management has been added;
- in Annex B, the equivalent requirements in ISO 8728 and IMO Resolution have been deleted and the alerts with a standard alert identifier have been defined;

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- in Annex C, IEC 61162 interfaces overview has been added;
- the normative references and bibliography have been updated.

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Introduction

This document is aligned with *IMO Resolution A.424(XI)* on performance standards for gyro-compasses.

Any text in this document which is a citation from the *IMO Resolution A.424(XI)*, appears in italics. Within these citations, any changes to the original wording of the *IMO Resolution A.424(XI)* are written in upright font.

-In this document, the following verbal forms are used:

— “shall” indicates a requirement;

— “should” indicates a recommendation;

— “may” indicates a permission;

— “can” indicates a possibility or a capability.

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Ships and marine technology — Marine gyro-compasses

1 Scope

This document specifies the construction, performance, and type testing for gyro-compasses which are required by the International Convention for the Safety of Life at Sea (SOLAS), 1974 (as amended), Chapter V, Regulation 19.

This document specifies the minimum requirements, the construction, performance, and type testing for gyro-compasses, which required to comply with the performance standards adopted by the IMO Resolution A.424(XI).

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2 Normative references

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.

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IEC 60945, *Maritime navigation and radiocommunication equipment and systems — General requirements — Methods of testing and required test results*

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IEC 61162-1, *Maritime navigation and radiocommunication equipment and systems — Digital interfaces - Part 1: Single talker and multiple listeners*

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IEC 61162-2, *Maritime navigation and radiocommunication equipment and systems — Digital interfaces — Part 2: Single talker and multiple listeners, high-speed transmission*

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IEC 61162-450, *Maritime navigation and radiocommunication equipment and systems - Digital interfaces - Part 450: Multiple talkers and multiple listeners - Ethernet interconnection*

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IEC 62288, *Maritime navigation and radiocommunication equipment and systems — Presentation of navigation-related information on shipborne navigational displays — General requirements, methods of testing and required test results*

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IEC 62923-1:2018, *Maritime navigation and radiocommunication equipment and systems — Bridge alert management — Part 1: Operational and performance requirements, methods of testing and required test results*

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IEC 62923-2, *Maritime navigation and radiocommunication equipment and systems — Bridge alert management — Part 2: Alert and cluster identifiers and other additional features*

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IMO Resolution MSC.302(87), *Performance standards for bridge alert management*

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IMO Resolution MSC.191(79), *Performance standards for the presentation of navigation-related information on shipborne navigational displays*

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IMO Resolution MSC.466(101), *Amendments to the performance standards for the presentation of navigation-related information on shipborne navigational displays (Resolution MSC.191(79))*

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