International Standard

ISO 16328

Ships and marine technology — Gyro-compasses for high-speed craft

Navires et technologie maritime — Compas gyroscopiques pour navires à grande vitesse

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

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This third edition cancels and replaces the second edition (ISO 16328:2014), which has been technically revised.

The main changes are as follows:

— Clause 4 (abbreviated terms) has been added;

— in 6.4, requirements related to bridge alert management have been added;

— in 7.1, a requirement for display equipment has been added;

— in 7.12, a test method for requirements related to bridge alert management has been added;

— Annex C has been replaced with a new Annex on alerts definition, including alert identifiers;

— in Annex D, an IEC 61162 series interfaces overview has been added;

— the normative references and bibliography have been updated.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Introduction

This document is aligned with IMO Resolution A.821(19)[4] on performance standards for gyro-compasses for high-speed craft.

Any text in this document which is a citation from the IMO Resolution A.821(19), appears in italics. Within these citations, any changes to the original wording of the IMO Resolution A.821(19) 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 — Gyro-compasses for high-speed craft

1 Scope

This document specifies the minimum requirements, construction, performance and type testing for gyro-compasses for high-speed craft, which are required to comply with the International Convention for the Safety of Life at Sea (SOLAS) 1974 (as amended),[4] Chapter X and the performance standards adopted by the IMO Resolution A.821(19).[4]

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.

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

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

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

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

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*

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

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

IMO Resolution A.424 (XI), *Performance standards for gyro-compasses*

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

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

IMO Resolution A.694(17), *General requirements for shipborne radio equipment forming part of the global maritime distress and safety system (GMDSS) and for electronic navigational aids*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

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