
Ships and marine technology — Rate of turn indicators

*Navires et technologie maritime — Fréquence des indicateurs de
direction*



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Published in Switzerland

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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.

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

This second edition cancels and replaces the first edition (ISO 20672:2007), which has been technically revised. It also incorporates the Technical Corrigendum ISO 20672:2007/Cor 1:2008.

The main changes are as follows:

- in [Clause 2](#), deleted IEC 61162-1 and IEC 61162-2;
- in [4.5](#) and [6.1](#), added a provision on displays for presentation and a reference to IEC 62288;
- in new [4.6](#) and [6.6](#), added a provision on alerts and a reference to IEC 62923-1 and IEC 62923-2;
- in [Clause 7](#), updated interface requirements;
- in the Bibliography, added IEC 61162-1, IEC 61162-2, IEC 61162-450, IEC 62288, IEC 62923-1, IEC 62923-2, IMO Resolution MSC.191(79), IMO Resolution MSC.302(87) and IMO Resolution MSC.466(101).

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.

Ships and marine technology — Rate of turn indicators

1 Scope

This document specifies the construction, performance requirements, methods of testing and required test results for the rate of turn indicators required by Clause 2.9.1, Regulation 19, chapter V, SOLAS 1974 (as amended, 2000).

It is based upon the requirements of IMO Resolution A.526(13), and is also associated with IMO Resolution A.694 (17) and IEC 60945.

Where a requirement in this document is different from that in IEC 60945, the requirement in this document takes precedence.

NOTE All requirements that are extracted from the recommendations of IMO Resolution A.526(13) on performance standards for rate of turn indicators are printed in italics and the resolution and paragraph numbers are indicated in brackets.

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

IMO Resolution A.526(13), *Performance standards for rate-of-turn indicators*

3 Terms and definitions

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

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at <https://www.iso.org/obp>

— IEC Electropedia: available at <https://www.electropedia.org/>

3.1

rate of turn indicator

indicator capable of indicating rates of turn in degrees per minute to starboard and to port of the ship to which it is fitted

Note 1 to entry: A rate of turn indicator may be self-contained; alternatively it may form part of, or derive information from, any other appropriate equipment.

[SOURCE: IMO Resolution A.526(13), 2.1 and 2.2, modified — in the definition, added “in degrees per minute”.]

3.2

analogue-type indicator

indicator that shows the rate of turn in a continuous way, such as by means of an arrow pointer and a graduated scale