



BSI Standards Publication

**Ships and marine technology — Systems for the
Detection of Persons While Going Overboard
from Ships (Man Overboard Detection)**

National foreword

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**Ships and marine technology —
Systems for the detection of persons
while going overboard from ships
(Man overboard detection)**

*Navires et technologie maritime — Systèmes pour la détection des
personnes passant par-dessus bord (détection d'un homme à la mer)*



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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 on 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 the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 8, *Ships and marine technology*, Subcommittee SC 1, *Maritime safety*.

Introduction

The lack of standardized man overboard (MOB) detection system requirements has made it difficult for end users to objectively evaluate the safety and effectiveness of such systems. This document addresses these issues by clearly defining the technical specifications for the equipment, thereby allowing manufacturers to develop systems against a common set of requirements and enabling end-users to evaluate the safety, effectiveness, performance, and reliability of MOB detection systems.

Comments to ISO TC 8 SC 1 on this document are encouraged. The experience gained by the wider audience of users, suppliers, and other stakeholders using this document will better inform the development of the final International Standard. To submit comments, see <https://www.iso.org/committee/45800.html>.

Ships and marine technology — Systems for the Detection of Persons While Going Overboard from Ships (Man Overboard Detection)

1 Scope

This document specifies technical requirements for systems designed to detect a person who has gone overboard from a passenger ship. This document addresses how a system is expected to perform in various environmental conditions and a wide variety of incident profiles.

This document does not cover man overboard (MOB) detection systems that require the passengers or crew to wear or carry a device to trigger an MOB event.

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.

ISO/TR 7250-2:2010, *Basic human body measurements for technological design — Part 2: Statistical summaries of body measurements from national populations*

IEC 60068-2-6:2007, *Environmental testing — Part 2-6: Tests — Test Fc: Vibration (sinusoidal)*

IEC 60092-376:2003, *Electrical installations in ships — Part 376: Cables for control and instrumentation circuits 150/250 V (300V)*

IEC 60945:2002(E), *Maritime navigation and radiocommunication equipment and systems — General requirements — Methods of testing and required test results*

IEC 61162-3:2014, *Maritime navigation and radiocommunication equipment and systems — Digital interfaces — Part 3: Serial data instrument network*

3 Terms and definitions

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

ISO and IEC maintain terminological 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

accessible open area

any area of the ship that is accessible to either passengers or crew and open to the outside

3.2

active state

state in which the system is on

3.3

alarm actions

actions available within the system when an MOB warning or alarm is triggered or changes status