

Ships and marine technology — Marine radar reflectors

Part 1: Passive type

ICS 47.020.70

National foreword

This British Standard is the UK implementation of ISO 8729-1:2010. It supersedes BS EN ISO 8729:1999 which is withdrawn.

ISO 8729 was published in 1997; it was parallel voted, adopted by CEN and published in the UK as BS EN ISO 8729:1999. EN ISO 8729:1999 was subsequently withdrawn by CEN. The new edition of ISO 8729:2010, which supersedes ISO 8729:1997, has not been adopted by CEN.

The UK participation in its preparation was entrusted to Technical Committee EPL/80, Maritime navigation and radiocommunication equipment and systems.

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

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

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Part 1: Passive type

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

ISO 8729-1 was prepared by Technical Committee ISO/TC 8, *Ships and marine technology*, Subcommittee SC 6, *Navigation and ship operations*.

This first edition of ISO 8729-1 cancels and replaces ISO 8729:1997, which has been technically revised.

ISO 8729 consists of the following parts, under the general title *Ships and marine technology — Marine radar reflectors*:

- *Part 1: Passive type*
- *Part 2: Active type*

Ships and marine technology — Marine radar reflectors —

Part 1: Passive type

1 Scope

It is recognized that small vessels, often made of glass reinforced plastic (GRP), can be poor reflectors of radar signals. In situations where radar is the prime observation tool used by ships at sea, the International Maritime Organization (IMO) considers that it is essential that small vessels, considered in this context to be those under 150 gross tonnage, be equipped with a radar reflector to enhance their radar return and thus to improve their visibility to radar.

This International Standard specifies the minimum requirements for a radar reflector intended to enhance returns from small vessels as required by IMO Resolution MSC. 164(78).

It provides the specification for the construction, performance, testing, inspection and installation of such radar reflectors.

There are two types of radar reflector: passive and active. Passive reflectors are mechanical, whereas active reflectors have an electronic element. This part of ISO 8729 concerns passive reflectors.

NOTE Requirements that have been extracted from IMO Resolution MSC. 164(78) *Revised performance standards for radar reflectors* are printed in italics.

2 Normative references

The following referenced documents are indispensable for the application 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 8729-2:2009, *Ships and marine technology — Marine radar reflectors — Part 2: Active type*

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

IMO Resolution MSC. 164(78), *Revised performance standards for radar reflectors*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 8729-2 and the following apply.

3.1

passive radar reflector

radar reflector which does not consist of any electrical devices that receive, amplify and return a radar signal as a method of enhancing radar returns