

ETSI EN 301 843-8 V1.1.1 (2026-03)



HARMONISED EUROPEAN STANDARD

**ElectroMagnetic Compatibility (EMC) standard
for marine radio equipment and services;
Harmonised Standard for electromagnetic compatibility;
Part 8: Specific conditions for radio beacons and
locating devices**

Reference

DEN/ERM-EMC-421

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Foreword

This Harmonised European Standard (EN) has been produced by ETSI Technical Committee Electromagnetic compatibility and Radio spectrum Matters (ERM).

The present document has been prepared under the Commission's standardisation request C(2015) 5376 final [i.1] to provide one voluntary means of conforming to the essential requirements of Directive 2014/53/EU on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC [i.2].

Once the present document is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of the present document given in table A.1 confers, within the limits of the scope of the present document, a presumption of conformity with the corresponding essential requirements of that Directive and associated EFTA regulations.

The present document is part 8 of a multi-part deliverable. Full details of the entire series can be found in part 1 [1].

National transposition dates

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| Date of adoption of this EN: | 18 March 2026 |
| Date of latest announcement of this EN (doa): | 30 June 2026 |
| Date of latest publication of new National Standard or endorsement of this EN (dop/e): | 31 December 2026 |
| Date of withdrawal of any conflicting National Standard (dow): | 31 December 2027 |

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1 Scope

The present document covers the assessment of the following maritime radio beacons in respect of ElectroMagnetic Compatibility (EMC):

- Emergency Position Indicating Radio Beacons (EPIRBs) operating in the COSPAS-SARSAT satellite system in the UHF band 406,0 MHz to 406,1 MHz and in the maritime VHF band on frequencies 161,975 MHz (AIS1) and 162,025 MHz (AIS2).
- Personal Locating Beacons (PLBs) operating in the COSPAS-SARSAT satellite system in the UHF band 406,0 MHz to 406,1 MHz.
- Maritime Survivor Locating Devices (MSLDs) operating in the maritime VHF band on frequencies 156,525 MHz (CH 70), 161,975 MHz (AIS1) and 162,025 MHz (AIS2).
- Mobile Aids to Navigation (AtoN) operating on 161,975 MHz (AIS1) and 162,025 MHz (AIS2).
- Search And Rescue Transmitters (SARTs) operating on 161,975 MHz (AIS1) and 162,025 MHz (AIS2).

Any of the above devices may also include homing transmitters operating on 121,5 MHz and/or 243 MHz.

These devices may operate stand alone or together with ancillary equipment as a system.

Technical specifications related to the antenna port and emissions from the enclosure port of radio beacons are not included in the present document. Such technical specifications are found in the related product standards for the effective use of the radio spectrum.

The present document specifies the applicable test conditions, performance assessment, and performance criteria for radio beacons and the associated ancillary equipment.

NOTE: The relationship between the present document and essential requirements of article 3.1b of Directive 2014/53/EU [i.2] is given in annex A.

2 References

2.1 Normative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the referenced document (including any amendments) applies.

Referenced documents which are not found to be publicly available in the expected location might be found in the [ETSI docbox](#).

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The following referenced documents are necessary for the application of the present document.

- [1] [ETSI EN 301 843-1 \(V2.3.0\)](#): "ElectroMagnetic Compatibility (EMC) standard for marine radio equipment and services; Part 1: Common technical requirements".
- [2] [ETSI EN 303 132 \(V2.1.1\) \(2022-10\)](#): "Maritime VHF survivor locating devices employing Digital Selective Calling (DSC Class M); Harmonised Standard for access to radio spectrum and for features for emergency services".
- [3] [ETSI EN 300 338-6 \(V1.3.1\) \(2024-03\)](#): "Technical characteristics and methods of measurement for equipment for generation, transmission and reception of Digital Selective Calling (DSC) in the maritime MF, MF/HF and/or VHF mobile service; Part 6: Class M DSC".