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IEC 61508-2:2010 Functional safety of electrical/electronic/programmable electronic safety-related systems - Part 2: Requirements for electrical/electronic/programmable electronic safety-related systems

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Abbreviation
IEC 61508-2:2010
Valid from
30/04/2010

Information provider
International Electrotechnical Commission
Author
International Electrotechnical Commission
Information type
IEC Standard
Format
PDF

Cited By
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Description

IEC 61508-2:2010 applies to any safety-related system, as defined by IEC 61508-1, that contains at least:

- one electrical, electronic or programmable electronic element;
- applies to all elements within an E/E/PE safety-related system;
- specifies how to refine the E/E/PE system safety requirements specification, developed in accordance with IEC 61508-1, into the E/E/PE system design requirements specification;
- specifies the requirements for activities that are to be applied during the design and manufacture of the E/E/PE safety-related systems except software, which is dealt with in IEC 61508-3.

These requirements include the application of techniques and measures that:

- are graded against the safety integrity level, for the avoidance of, and control of, faults and failures;
- specifies the information necessary for carrying out the installation, commissioning and final safety validation of the E/E/PE safety-related system;
- provides requirements for the preparation of information and procedures needed by the user for the operation and maintenance of the E/E/PE safety-related systems;
- specifies requirements to be met by the organisation carrying out any modification of the E/E/PE safety-related systems.

This second edition cancels and replaces the first edition published in 1998. This edition constitutes a technical revision. It has been subject to a thorough review and incorporates many comments received at the various

revision stages. It has the status of a basic safety publication according to IEC Guide 104.

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- [BS EN 81-50:2014](#)

IEC 61508-2:2010 is cited by BS EN 81-50:2014 Safety rules for the construction and installation of lifts. Examinations and tests. Design rules, calculations, examination and tests of lift components

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