AS/NZS 62061:2019

Australian/New Zealand Standard™

Safety of machinery — Functional safety of safety-related electrical, electronic and programmable electronic control systems (IEC 62061:2005+AMD1:2012+AMD2:2015 CSV (ED.1.2)/COR1:2015 MOD)

AS/NZS 62061:2019

This Joint Australian/New Zealand Standard™ was prepared by Joint Technical Committee SF-041, Safety of Machinery. It was approved on behalf of the Council of Standards Australia on 4 November 2019 and by the New Zealand Standards Approval Board on 4 December 2019.

This Standard was published on 20 December 2019.

The following are represented on Committee SF-041:

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This Standard was issued in draft form for comment as DR AS/NZS IEC 62061:2019.

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ISBN 978 1 76072 672 0

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Originated in Australia as AS 62061—2006.
Jointly revised and redesignated as AS/NZS 62061:2019.

Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee, SF-041 Safety of Machinery, to supersede AS 62061—2006, *Safety of machinery —Functional safety of safety-related electrical, electronic and programmable electronic control systems.*

The objective of this Standard is to specify requirements and make recommendations for the design, integration and validation of safety-related electrical, electronic and programmable electronic control systems (SRECS) for machines.

This Standard is applicable to control systems used, either singly or in combination, to carry out safety-related control functions on machines that are not portable by hand while working, including a group of machines working together in a coordinated manner.

This Standard is an application standard and is not intended to limit or inhibit technological advancement. It does not cover all the requirements (e.g. guarding, non-electrical interlocking or non-electrical control) that are needed or required by other standards or regulations in order to safeguard persons from hazards. Each type of machine has unique requirements to be satisfied to provide adequate safety.

This Standard is—

(a) concerned only with functional safety requirements intended to reduce the risk of injury or damage to the health of persons in the immediate vicinity of the machine and those directly involved in the use of the machine; and

(b) restricted to risks arising directly from the hazards of the machine itself or from a group of machines working together in a coordinated manner;

This Standard does not—

(i) specify requirements for the performance of non-electrical (e.g. hydraulic, pneumatic) control elements for machines; or

(ii) cover electrical hazards arising from the electrical control equipment itself (e.g. electric shock).

This Standard is an adoption with national modifications, and has been reproduced from, IEC 62061:2005+AMD1:2012+AMD2:2015 CSV (ED.1.2), *Safety of machinery — Functional safety of safety-related electrical, electronic and programmable electronic control systems* and its Corrigendum 1 (2015). The modifications are additional requirements and are set out in Appendix ZZ, which has been added at the end of the source text.

Appendix ZZ lists the variations to IEC62061:2005+AMD1:2012+AMD2:2015 CSV (ED.1.2) for the application of this Standard in Australia and New Zealand.

As this document has been reproduced from an International Standard, the following applies:

(A) In the source text "this International Standard" should read "this Australian/New Zealand Standard".

(B) A full point substitutes for a comma when referring to a decimal marker.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

The terms "normative" and "informative" are used in Standards to define the application of the appendices or annexes to which they apply. A "normative" appendix or annex is an integral part of a Standard, whereas an "informative" appendix or annex is only for information and guidance.

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