PD IEC TR 62998-2:2020

BSI Standards Publication

Safety of machinery

Part 2: Examples of application

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National foreword

This Published Document is the UK implementation of IEC TR 62998-2:2020.

The UK participation in its preparation was entrusted to Technical Committee MCE/3, Safeguarding of machinery.

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

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Safety of machinery –
Part 2: Examples of application

INTERNATIONAL
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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FOREWORD

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IEC TR 62998-2, which is a Technical Report, has been prepared by IEC technical committee TC 44: Safety of machinery – Electrotechnical aspects.

The text of this Technical Report is based on the following documents:

Enquiry draft	Report on voting
44/849/DTR	44/865A/RVDTR

Full information on the voting for the approval of this technical report can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

This document is to be used in conjunction with IEC TS 62998-1:2019.

A list of all parts in the IEC 62998 series, published under the general title *Safety of machinery*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific document. At this date, the document will be

reconfirmed,

withdrawn,

replaced by a revised edition, or

amended.

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

INTRODUCTION

Safety-related sensors are applied to machinery presenting a risk of personal injury. They provide protection by causing the machine to revert to a safe condition before a person can be placed in a hazardous situation.

IEC TS 62998-1:2019 is intended for use by safety-related sensor manufacturers and integrators of safety-related sensors for the design of safety-related sensor systems used for the protection of persons.

This document gives guidance for manufacturers and integrators on the application of IEC TS 62998-1:2019.

SAFETY OF MACHINERY –

Part 2: Examples of application

1 Scope

This document establishes guidance for the application of IEC TS 62998-1:2019.

It provides examples of:

– application for which SRS/SRSS are relevant,
– use of SRS/SRSS information from an application point of view,
– fusion of SRS into SRSS for given applications, and
– appropriate information for use for given applications.

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.

IEC TS 62998-1:2019, *Safety of machinery – Safety-related sensors used for protection of persons*

3 Terms, definitions and abbreviated terms

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:

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp

3.1 Terms and definitions

3.1.1
mobile robot
robot able to travel under its own control

[SOURCE: ISO 8373:2012, 2.13, modified – The note has been omitted.]

3.1.2
robot
actuated mechanism programmable in two or more axes with a degree of autonomy, moving within its environment, to perform intended tasks

[SOURCE: ISO 8373:2012, 2.6, modified – Notes 1 and 2 have been omitted.]