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Standard Recommendation S.R. CLC/TR 62061-1:2010

Guidance on the application of ISO 13849-1 and IEC 62061 in the design of safety-related control systems for machinery (IEC/TR 62061-1:2010 (EQV))

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TECHNICAL REPORT

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August 2010

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English version

Guidance on the application of ISO 13849-1 and IEC 62061 in the design of safety-related control systems for machinery (IEC/TR 62061-1:2010)

Directives relatives à l'application de l'ISO 13849-1 et de la CEI 62061 dans la conception des systèmes de commande des machines relatifs à la sécurité (CEI/TR 62061-1:2010) Anleitung zur Anwendung von ISO 13849-1 und IEC 62061 bei der Gestaltung von sicherheitsbezogenen Steuerungen von Maschinen (IEC/TR 62061-1:2010)

This Technical Report was approved by CENELEC on 2010-07-26.

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CENELEC

European Committee for Electrotechnical Standardization Comité Européen de Normalisation Electrotechnique Europäisches Komitee für Elektrotechnische Normung

Management Centre: Avenue Marnix 17, B - 1000 Brussels

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CLC/TR 62061-1:2010

- 2 -

Foreword

The text of document 44/598/DTR, future edition 1 of IEC/TR 62061-1, prepared by IEC TC 44, Safety of machinery - Electrotechnical aspects, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as CLC/TR 62061-1 on 2010-07-26.

Endorsement notice

The text of the Technical Report IEC/TR 62061-1:2010 was approved by CENELEC as a Technical Report without any modification.

In the official version, for Bibliography, the following notes have to be added for the standard indicated:

IEC 62061	NOTE	Harmonized as EN 62061.
IEC 60947-5-1:2003	NOTE	Harmonized as EN 60947-5-1:2004 ([not] modified).
IEC 61511-1	NOTE	Harmonized as EN 61511-1.
IEC 61508 series	NOTE	Harmonized in EN 61508 series (not modified).
IEC 61800-5-2	NOTE	Harmonized as EN 61800-5-2.
ISO 13849-1	NOTE	Harmonized as EN ISO 13849-1.
ISO 13849-2	NOTE	Harmonized as EN ISO 13849-2.
ISO 14121-1	NOTE	Harmonized as EN ISO 14121-1.

– 2 – TR 62061-1 © IEC:2010

CONTENTS

FO	REWC	PRD	3		
INT	RODI	ICTION	5		
1	Scop	e	6		
2	Gene	ral	6		
3	Comparison of standards6				
4	4 Risk estimation and assignment of required performance7				
5	5 Safety requirements specification				
6	Assig	nment of performance targets: PL versus SIL	8		
7	Syste	m design	9		
	7.1	General requirements for system design using IEC 62061 and ISO 13849-1	9		
	7.2	Estimation of PFH_D and $MTTF_d$ and the use of fault exclusions	9		
	7.3	System design using subsystems or SRP/CS that conform to either IEC 62061 or ISO 13849-1	10		
	7.4	System design using subsystems or SRP/CS that have been designed using other IEC or ISO standards	10		
8	Exam	ple	10		
	8.1	General	10		
	8.2	Simplified example of the design and validation of a safety-related control system implementing a specified safety-related control function	11		
	8.3	Conclusion	18		
Bibliography19			19		
Figu	ure 1 -	- Example implementation of the safety function	11		
Figu	ure 2 ·	- Safety-related block diagram	13		
Figu	ure 3 -	- Safety-related block diagram for calculation according to ISO 13849-1	13		
Figu	ure 4 -	- Logical representation of subsystem D	15		
Tab dan	le 1 – gerou	Relationship between PLs and SILs based on the average probability of sfailure per hour	8		
Tab clai	le 2 – med f	Architectural constraints on subsystems' maximum SIL CL that can be or an SRCF using this subsystem	17		

TR 62061-1 © IEC:2010

- 3 -

INTERNATIONAL ELECTROTECHNICAL COMMISSION

GUIDANCE ON THE APPLICATION OF ISO 13849-1 AND IEC 62061 IN THE DESIGN OF SAFETY-RELATED CONTROL SYSTEMS FOR MACHINERY

FOREWORD

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IEC 62016-1, which is a technical report, has been prepared jointly by Technical Committee ISO/TC 199, *Safety of machinery*, and Technical Committee IEC/TC 44, *Safety of machinery* – *Electrotechnical aspects*. The draft was circulated for voting to the national bodies of both ISO and IEC. These technical committees have agreed that no modification will be made to this Technical Report except by mutual agreement¹.

¹ This Technical Report is published at the ISO as ISO/TR 23849.

- 4 -

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The text of this technical report is based on the following documents:

Enquiry draft	Report on voting
44/598/DTR	44/608/RVC

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

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

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

TR 62061-1 © IEC:2010

- 5 -

INTRODUCTION

This Technical Report has been prepared by experts from both IEC/TC 44/WG 7 and ISO/TC 199/WG 8 in response to requests from their Technical Committees to explain the relationship between IEC 62061 and ISO 13849-1. In particular, it is intended to assist users of these International Standards in terms of the interaction(s) that can exist between the standards to ensure that confidence can be given to the design of safety-related systems made in accordance with either standard.

It is intended that this Technical Report be incorporated into both IEC 62061 and ISO 13849-1 by means of corrigenda that reference the published version of this document. These corrigenda will also remove the information given in Table 1, *Recommended application of IEC 62061 and ISO 13849-1*, provided in the common introduction to both standards, which is now recognized as being out of date. Subsequently, it is intended to merge ISO 13849-1 and IEC 62061 by means of a JWG of ISO/TC 199 and IEC/TC 44.



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