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Industrial communication networks - Profiles - Part 3-2: Functional safety fieldbuses - Additional specifications for CPF 2

Industrielle Kommunikationsnetze - Profile - Teil 3-2: Funktional sichere Übertragung bei Feldbussen - Zusätzliche Festlegungen für die Kommunikationsprofilfamilie 2

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CENELEC

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Foreword

The text of document 65C/470/FDIS, future edition 1 of IEC 61784-3-2, prepared by SC 65C, Industrial networks, of IEC TC 65, Industrial-process measurement, control and automation, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61784-3-2 on 2008-05-01.

The following dates were fixed:

– latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2009-02-01

– latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2011-05-01

The International Electrotechnical Commission (IEC) and CENELEC draw attention to the fact that it is claimed that compliance with this document may involve the use of patents concerning the functional safety communication profiles for family 2 as follows, where the [xx] notation indicates the holder of the patent right:

US 6,631,476 [RA]	Safety network for industrial controller providing redundant connections on single media
US 6,701,198 [RA]	Safety network for industrial controller allowing initialization on standard networks
US 6,721,900 [RA]	Safety network for industrial controller having reduced bandwidth requirements
US 6,891,850 [RA]	Network independent safety protocol for industrial controller
US 6,915,444 [RA]	Network independent safety protocol for industrial controller using data manipulation techniques

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The IEC and CENELEC take no position concerning the evidence, validity and scope of these patent rights.

The holders of these patent rights have assured the IEC that they are willing to negotiate licences under reasonable and non-discriminatory terms and conditions with applicants throughout the world. In this respect, the statements of the holders of these patent rights are registered with IEC.

Information may be obtained from:

[RA] Rockwell Automation, Inc.
1201 S. Second Street
Milwaukee, WI 53204
USA
Attention: Intellectual Propert Dept.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights other than those identified above. IEC and CENELEC shall not be held responsible for identifying any or all such patent rights.

Annex ZA has been added by CENELEC.

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Endorsement notice

The text of the International Standard IEC 61784-3-2:2007 was approved by CENELEC as a European Standard without any modification.

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

IEC 60204-1	NOTE Harmonized as EN 60204-1:2006 (not modified).
IEC 61158	NOTE Harmonized in EN 61158 series (not modified).
IEC 61496	NOTE Harmonized as EN 61496-1:2004 (modified) and as CLC/TS 61496-2:2006 (not modified) and CLC/TC 61496-3:2008 (not modified)
IEC 61508-4	NOTE Harmonized as EN 61508-4:2001 (not modified).
IEC 61508-6	NOTE Harmonized as EN 61508-6:2001 (not modified).
IEC 61784-5	NOTE Harmonized in EN 61784-5 series (not modified).
IEC 61800-5-2	NOTE Harmonized as EN 61800-5-2:2007 (not modified).
IEC 62061	NOTE Harmonized as EN 62061:2005 (not modified).
ISO 12100-1	NOTE Harmonized as EN ISO 12100-1:2003 (not modified).
ISO 13849-1	NOTE Harmonized as EN ISO 13849-1:2006 (not modified).
ISO 13849-2	NOTE Harmonized as EN ISO 13849-2:2003 (not modified).

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Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application 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.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

Publication	Year	Title	EN/HD	Year
IEC 61131-2	-[1]	Programmable controllers - Part 2: Equipment requirements and tests	EN 61131-2	2007[2]
IEC 61131-3	-[1]	Programmable controllers - Part 3: Programming languages	EN 61131-3	2003[2]
IEC 61158-2	-[1]	Industrial communication networks - Fieldbus specifications - Part 2: Physical layer specification and service definition	EN 61158-2	2008[2]
IEC 61158-3-2	-[1]	Industrial communication networks - Fieldbus specifications - Part 3-2: Data-link layer service definition - Type 2 elements	EN 61158-3-2	2008[2]
IEC 61158-4-2	-[1]	Industrial communication networks - Fieldbus specifications - Part 4-2: Data-link layer protocol specification - Type 2 elements	EN 61158-4-2	2008[2]
IEC 61158-5-2	-[1]	Industrial communication networks - Fieldbus specifications - Part 5-2: Application layer service definition - Type 2 elements	EN 61158-5-2	2008[2]
IEC 61158-6-2	-[1]	Industrial communication networks - Fieldbus specifications - Part 6-2: Application layer protocol specification - Type 2 elements	EN 61158-6-2	2008[2]
IEC 61326-3-1	-[1]	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3-1: Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety) - General industrial applications	EN 61326-3-1	2008[2]
IEC 61326-3-2	-[1]	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3-2: Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety) - Industrial applications with specified electromagnetic environment	EN 61326-3-2	2008[2]

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[1] Undated reference.

[2] Valid edition at date of issue.

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Publication	Year	Title	EN/HD	Year
IEC 61508	Series	Functional safety of electrical/electronic/programmable electronic safety-related systems	EN 61508	Series
IEC 61784-1	-[1]	Industrial communication networks - Profiles - Part 1: Fieldbus profiles	EN 61784-1	2008[2]
IEC 61784-2	-[1]	Industrial communication networks - Profiles - Part 2: Additional fieldbus profiles for real-time networks based on ISO/IEC 8802-3	EN 61784-2	2008[2]
IEC 61784-3	-[1]	Industrial communication networks - Profiles - Part 3: Functional safety fieldbuses - General rules and profile definitions	EN 61784-3	2008[2]
IEC 61784-5-2	-[1]	Industrial communication networks - Profiles - Part 5-2: Installation of fieldbuses - Installation profiles for CPF 2	EN 61784-5-2	2008[2]
IEC 61918 (mod)	-[1]	Industrial communication networks - Installation of communication networks in industrial premises	EN 61918	2008[2]
IEC 62026-3	-[1]	Low-voltage switchgear and controlgear - Controller-device interfaces (CDIs) - Part 3: DeviceNet	-	-
ISO 15745-2	-[1]	Industrial automation systems and integration - Open systems application integration framework - Part 2: Reference description for ISO 11898 based control systems	-	-
ISO 15745-3	-[1]	Industrial automation systems and integration - Open systems application integration framework - Part 3: Reference description for IEC 61158 based control systems	-	-
ISO 15745-4	-[1]	Industrial automation systems and integration - Open systems application integration framework - Part 4: Reference description for Ethernet-based control systems	-	-

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