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de l'accréditation, de la sécurité et qualité
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ILNAS-EN IEC 61810-4:2020

Electromechanical elementary relays - Part 4: General and safety requirements for reed relays

Relais électromécaniques élémentaires -
Partie 4: Exigences générales et de
sécurité relatives aux relais à lames
souples

Elektromechanische Elementarrelais -
Teil 4: Allgemeine- und
Sicherheitsanforderungen für Reedrelais

12/2020



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English Version

Electromechanical elementary relays - Part 4: General and safety requirements for reed relays (IEC 61810-4:2020)

Relais électromécaniques élémentaires - Partie 4:
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lames souples
(IEC 61810-4:2020)

Elektromechanische Elementarrelais - Teil 4: Reedrelais -
Allgemeine und Sicherheitsanforderungen
(IEC 61810-4:2020)

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

European foreword

The text of document 94/482/FDIS, future edition 1 of IEC 61810-4, prepared by IEC/TC 94 "All-or-nothing electrical relays" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61810-4:2020.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2021-09-09
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2023-12-09

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The text of the International Standard IEC 61810-4:2020 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 60068 (series)	NOTE	Harmonized as EN 60068 (series)
IEC 60068-2-6	NOTE	Harmonized as EN 60068-2-6
IEC 60068-2-27	NOTE	Harmonized as EN 60068-2-27
IEC 60529:1989	NOTE	Harmonized as EN 60529:1991 (not modified)
IEC 60529:1989/A1:1999	NOTE	Harmonized as EN 60529:1991/A1:2000 (not modified)
IEC 60529:1989/A2:2013	NOTE	Harmonized as EN 60529:1991/A2:2013 (not modified)
IEC 60721-3-3:2019	NOTE	Harmonized as EN IEC 60721-3-3:2019 (not modified)
IEC 60870-2-2:1996	NOTE	Harmonized as EN 60870-2-2:1996 (not modified)
IEC 60947-1:2020	NOTE	Harmonized as EN IEC 60947-1:— ¹ (not modified)
IEC 61643-21:2000	NOTE	Harmonized as EN 61643-21:2001 (not modified)
IEC 61643-21:2000/A1:2008	NOTE	Harmonized as EN 61643-21:2001/A1:2009
IEC 61643-21:2000/A2:2012	NOTE	Harmonized as EN 61643-21:2001/A2:2013 (not modified)
IEC 61810 (series)	NOTE	Harmonized as EN 61810 (series)
ISO 4589-2:2017	NOTE	Harmonized as EN ISO 4589-2:2017 (not modified)
ISO 5659-2:2017	NOTE	Harmonized as EN ISO 5659-2:2017 (not modified)

¹ To be published. Stage at the time of publication: FprEN IEC 60947-1:2020.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60068-2-17	1994	Basic environmental testing procedures - Part 2-17: Tests - Test Q: Sealing	EN 60068-2-17	1994
IEC 60077-1	2017	Railway applications - Electric equipment for rolling stock - Part 1: General service conditions and general rules	EN 60077-1	2017
IEC 60077-2	2017	Railway applications - Electric equipment for rolling stock - Part 2: Electrotechnical components - General rules	EN 60077-2	2017
IEC 60571	2012	Railway applications - Electronic equipment used on rolling stock	-	-
IEC 61373	2010	Railway applications - Rolling stock equipment - Shock and vibration tests	EN 61373	2010
IEC 61810-1	2015	Electromechanical elementary relays - Part 1: General and safety requirements	EN 61810-1	2015
+ A1	2019		+ A1	2020
IEC 61810-2	2017	Electromechanical elementary relays - Part 2: Reliability	EN 61810-2	2017
IEC 61810-2-1	2017	Electromechanical elementary relays - Part 2-1: Reliability - Procedure for the verification of B ₁₀ values	EN 61810-2-1	2017
IEC 61810-7	2006	Electromechanical elementary relays - Part 7: Test and measurement procedures	EN 61810-7	2006
IEC 61810-10	2019	Electromechanical elementary relays - Part 10: Additional functional aspects and safety requirements for high-capacity relays	EN IEC 61810-10	2019

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 62246-1	2015	Reed switches - Part 1: Generic specification	EN 62246-1	2015
IEC 62246-1-1	2018	Reed switches - Part 1-1: Generic specification - Blank detail specification	EN IEC 62246-1-1	2018
IEC 62497-1	2010	Railway applications - Insulation coordination - Part 1: Basic requirements - Clearances and creepage distances for all electrical and electronic equipment	-	-
+A1	2013		-	-
IEC 62498-1	2010	Railway applications - Environmental conditions for equipment - Part 1: Equipment on board rolling stock	-	-



INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Electromechanical elementary relays –
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**Relais électromécaniques élémentaires –
Partie 4: Exigences générales et de sécurité relatives aux relais à lames souples**

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