STN

Bezpečnostné pravidlá na konštrukciu a montáž výťahov

Výťahy na prepravu osôb a nákladov Časť 28: Diaľková signalizácia núdzového stavu v osobných výťahoch a v nákladných výťahoch s prístupom osôb STN EN 81-28

27 4003

Safety rules for the construction and installation of lifts - Lifts for the transport of persons and goods - Part 28: Remote alarm on passenger and goods passenger lifts

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 08/22

Obsahuje: EN 81-28:2022

Oznámením tejto normy sa od 30.06.2024 ruší STN EN 81-28+AC (27 4003) z júna 2019

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 81-28

June 2022

ICS 13.320; 91.140.90

Supersedes EN 81-28:2018+AC:2019

English Version

Safety rules for the construction and installation of lifts -Lifts for the transport of persons and goods - Part 28: Remote alarm on passenger and goods passenger lifts

Règles de sécurité pour la construction et l'installation des élévateurs - Élévateur pour le transport de personnes et d'objets - Partie 28 : Téléalarme pour ascenseurs et ascenseurs de charge Sicherheitsregeln für die Konstruktion und den Einbau von Aufzügen - Aufzüge für den Personen- und Gütertransport - Teil 28: Fern-Notruf für Personenund Lastenaufzüge

This European Standard was approved by CEN on 20 April 2022.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

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

EN 81-28:2022 (E)

Contents

Contents		Page
Europ	pean foreword	4
Intro	duction	5
1	Scope	
2	Normative references	
2		
3	Terms and definitions	
4	Safety requirements and/or protective/risk reduction measures	8
4.1	General	
4.1.1	Introduction	
4.1.2	Alarm information	
4.1.3	End of alarm	
4.1.4	Emergency electrical power supply	
4.1.5	Visible and audible signals in the lift car	
4.1.6	Alarm filtering	
4.1.7	Identification	
4.1.8	CommunicationTechnical characteristics	
4.2 4.2.1	Availability / reliability	
4.2.1 4.2.2	Electrical interface	
4.2.2 4.2.3	Alarm initiation device	
4.2.3 4.2.4	Accessibility to alarm equipment	
	· · · · · · · · · · · · · · · · · · ·	
4.2.5	Modification of parameters	
5	Information for use	12
5.1	Information to be provided with the lift	
5.2	Information for the rescue service	12
6	Verification of the safety requirements and/or protective measures	12
6.1	GeneralGeneral	13 12
6.2	Examinations and tests	
6.2.1	General	
6.2.2	Alarm (4.1.2)	
6.2.3	End of alarm (4.1.3)	
6.2.4	Emergency electrical power supply (4.1.4), if applicable	
6.2.5	Information in the lift car (4.1.5)	
6.2.6	Communication (4.1.8), alarm filtering (4.1.6), identification (4.1.7)	
7	Marking	
-		
	x A (normative) Typical 2-way communication between lift(s) and rescue service	
Anne	x B (informative) General information for the operation of rescue services	
B.1	General	
B.2	Operation	17
B.3	Response time	17
B.4	Identification	18

EN 81-28:2022 (E)

B.5	Communication	. 18
B.6	Back-up service	. 18
B.7	Testing	. 18
B.8	Training	. 18
Annex	ZA (informative) Relationship between this European Standard and the essential requirements of Directive 2014/33/EU aimed to be covered	. 19
Biblio	graphy	. 20

European foreword

This document (EN 81-28:2022) has been prepared by Technical Committee CEN/TC 10 "Lifts, escalators and moving walks", the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by December 2022, and conflicting national standards shall be withdrawn at the latest by June 2024.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 81-28:2018+AC:2019.

In comparison with EN 81-28:2018+AC:2019, the following significant changes have been made:

- normative references have been updated;
- Annex ZA has been modified.

No technical changes have been made in Clause 4 during this revision.

This document is intended to be used in conjunction with the EN 81-20:2020, which gives the basic requirements for passenger and goods passenger lifts.

This document is part of the EN 81 series of standards. The structure of the EN 81 series is described in CEN/TR 81-10:2008.

This document has been prepared under a Standardization Request given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s) / Regulation(s).

For relationship with EU Directive(s) / Regulation(s), see informative Annex ZA, which is an integral part of this document.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

This document is a type-C standard as stated in EN ISO 12100.

This document is of relevance, in particular, for the following stakeholder groups representing the market players with regard to machinery safety:

- machine manufacturers (small, medium and large enterprises);
- health and safety bodies (regulators, accident prevention organizations, market surveillance etc.).

Others can be affected by the level of machinery safety achieved with the means of the document by the above-mentioned stakeholder groups:

- machine users/employers (small, medium and large enterprises);
- machine users/employees (e.g. trade unions, organizations for people with special needs);
- service providers, e.g. for maintenance (small, medium and large enterprises);
- consumers (in case of machinery intended for use by consumers).

The above-mentioned stakeholder groups have been given the possibility to participate in the drafting process of this document.

The machinery concerned and the extent to which hazards, hazardous situations or hazardous events are covered are indicated in the Scope of this document.

When requirements of this type-C standard are different from those which are stated in type-A or type-B standards, the requirements of this type-C standard take precedence over the requirements of the other standards for machines that have been designed and built according to the requirements of this type-C standard.

1 Scope

This document specifies the technical requirements for the alarm systems for passenger and goods passenger lifts, as described in the EN 81 series.

This includes:

- activation of the alarm,
- transmission of the alarm,
- information for use and maintenance,
- site testing to verify the requirements of this document have been met before the lift is used.

Excluded are:

- the failure of the communication network (see Annex A), including mobile network signal strength or similar;
- the failure of the network power supply such that all the lifts in a geographical area create entrapment simultaneously.

This document deals with the following significant hazards, hazardous situations or hazardous events relevant to lift, when it is used as intended and under conditions of misuse which are reasonably foreseeable by the manufacturer:

risk of entrapment of users in the car and in the well.

This document is not applicable to alarm systems for lifts installed before the date of its publication.

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.

EN 81-20:2020, Safety rules for the construction and installation of lifts — Lifts for the transport of persons and goods — Part 20: Passenger and goods passenger lifts

EN ISO 12100:2010, Safety of machinery — General principles for design — Risk assessment and risk reduction (ISO 12100:2010)

ISO 4190-5:2006, Lift (Elevator) installation — Part 5: Control devices, signals and additional fittings

koniec náhľadu – text ďalej pokračuje v platenej verzii STN