ICS 13.260, 45.020 SLOVENSKÁ TECHNICKÁ NORMA Máj 2021

STN	**Dráhové aplikácie Pevné inštalácie Elektrické ochranné opatrenia pre pracovné činnosti na systémoch nadzemného trolejového vedenia alebo v ich blízkosti alebo na súvisiacom spätnom okruhu**	**STN EN 50488** 34 1506

Railway applications - Fixed installations - Electrical protective measures for working on or near an overhead contact line system and/or its associated return circuit

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. 04/21

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EUROPEAN STANDARD

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EN 50488

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ICS 13.260; 45.020

Supersedes CLC/TR 50488:2006 and all of its amendments and corrigenda (if any)

English Version

Railway applications - Fixed installations - Electrical protective measures for working on or near an overhead contact line system and/or its associated return circuit

Applications ferroviaires - Installations fixes - Mesures de protection électriques pour des activités de travail sur ou à proximité des systèmes de lignes aériennes de contact et/ou le circuit de retour associé

Bahnanwendungen - Ortsfeste Anlagen - Elektrische Schutzmaßnahmen bei Arbeiten an oder in der Nähe einer Oberleitungsanlage und/oder ihrer zugehörigen Rückleitung

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

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EN 50488:2021 (E)

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European foreword

This document (EN 50488:2021) has been prepared by CLC/SC 9XC “Electric supply and earthing systems for public transport equipment and ancillary apparatus (Fixed installations)”, of Technical Committee CLC/TC 9X, “Electrical and electronic applications for railways”.

The following dates are fixed:

• latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2021-07-29
• latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	2026-01-29

This document supersedes CLC/TR 50488:2006 and all of its amendments and corrigenda (if any).

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

Introduction

This document provides railway specific requirements for electrical protective measures for working on or near an overhead contact line system and/or its associated return circuit.

When developing this document, EN 50110-1, *Operation of electrical installations – Part 1: General requirements*, was used as a guide. EN 50110-1 was not developed specifically to apply to the electric traction system which have different characteristics than those commonly found in other electrical installations.

Due to the numerous variations of organization, this document does not give any recommendations concerning organisational structure.

Because of numerous variations in overhead contact lines with nominal voltage lower than 1,5 kV, this document does not deal with work activities on or near these overhead contact lines and/or their associated return circuit.

The trend in Europe is that “dead working” is more common than “live working”. In the countries where live working on the overhead contact lines is allowed, the national regulation should state the necessary safety rules.

1 Scope

This document provides requirements for electrical safety for:

- dead working on an overhead contact line system;
- working activities near an overhead contact line system when it is live.

It applies to all work activities in relation to electrical hazards only.

This document is applicable to overhead contact line systems with the following nominal voltages and configurations:

- 1,5 kV and 3 kV DC;
- 15 kV, 2x15 kV, 25 kV and 2x25 kV AC.

It also provides requirements for work activities that can give rise to electrical hazards from the return circuit.

This document does not cover electrical risk arising from:

- live working on overhead contact line systems (live working can be carried out according to national requirements, regulations and practices);
- working on or near other electrical sources or electrical systems connected to or close to the OCL system and its return circuit.

If there are no other rules or procedures, the principles described in this document can be applied to overhead contact line systems with other nominal voltages.

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 50122-1:2011, *Railway applications - Fixed installations - Electrical safety, earthing and the return circuit - Part 1: Protective provisions against electric shock*