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Electrical supply track systems for luminaires

Systèmes d'alimentation électrique par rail pour luminaires

CONTENTS

INTERNATIONAL ELECTROTECHNICAL COMMISSION

ELECTRICAL SUPPLY TRACK SYSTEMS FOR LUMINAIRES

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This Consolidated version of IEC 60570 bears the edition number 4.1. It consists of the fourth edition (2003-01) [documents 34D/770/FDIS and 34D/774/RVD] and its amendment 1 (2017-04) [documents 34D/1221/CDV and 34D/1242A/RVC]. The technical content is identical to the base edition and its amendment.

This Final version does not show where the technical content is modified by amendment 1. A separate Redline version with all changes highlighted is available in this publication.

International Standard IEC 60570 has been prepared by subcommittee 34D: Luminaires, of IEC technical committee 34: Lamps and related equipment.

This fourth edition constitutes a minor revision.

This standard shall be used in conjunction with IEC 60598-1.

NOTE In this standard, the following print types are used:

– requirements proper: in roman type;

– *test specifications: in italic type;*

– notes: in smaller roman type.

The committee has decided that the contents of the base publication and its amendment 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- withdrawn,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.

ELECTRICAL SUPPLY TRACK SYSTEMS FOR LUMINAIRES

1 Scope

This International Standard applies to the following track systems with two or more poles for the connection of luminaires to the electrical supply consisting of, either

– a system with a rated voltage not exceeding 440 V between poles (live conductors) with provision for earthing (class I) and a rated current not exceeding 16 A per conductor, or

– a SELV system with a rated voltage not exceeding 25 V a.c. or 60 V d.c. without provision for earthing (class III) and a rated current not exceeding 25 A per conductor, or

– a combination of the two systems mentioned above (mixed supply system) for the connection of both mains voltage luminaires (class I or II) and SELV supplied luminaires (class III) simultaneously, but in different sector openings (mains or SELV).

The track systems may also provide for the mechanical support of the luminaires.

It applies to track systems designed for ordinary interior use for mounting on, or flush with, or suspended from walls and ceilings. These track systems are not intended for locations where special conditions prevail as in ships, vehicles and the like, and in hazardous locations, for example, where explosions are liable to occur.

2 Normative references

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.

IEC 60417-2, *Graphical symbols for use on equipment – Part 2: Symbol originals*

IEC 60598-1:1999, *Luminaires – Part 1: General requirements and tests*

IEC 61032:1997, *Protection of persons and equipment by enclosures – Probes for verification*

3 Terms and definitions

For the purposes of this standard, the definitions of section one of IEC 60598-1 apply, together with the following definitions.

NOTE The use of the term luminaire (see IEC 60598-1) hereinafter also includes components of the luminaire track system.

3.1
luminaire track system
system, including a track with conductors, for the connection of luminaires to an electrical supply in a range of different positions determined only by the length and location of the track and comprising some or all of the components defined in 3.2 to 3.14 (see also Figure 1)