

Electrical supply track systems for luminaires

The European Standard EN 60570 : 1993 has the status of a
British Standard

Systèmes d'alimentation électrique par rail
pour luminaires

Elektrische Stromschienen-Systeme für
Leuchten

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Cooperating organizations

The European Committee for Electrotechnical Standardization (CENELEC), under whose supervision this European Standard was prepared, comprises the national committees of the following countries:

Austria	Italy
Belgium	Luxembourg
Denmark	Netherlands
Finland	Norway
France	Portugal
Germany	Spain
Greece	Sweden
Iceland	Switzerland
Ireland	United Kingdom

This British Standard, having been prepared under the direction of the Electrical Illumination Standards Policy Committee, was published under the authority of the Standards Board and comes into effect on 15 February 1994

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National foreword

This British Standard has been prepared under the direction of the Electrical Illumination Standards Policy Committee and is the English language version of EN 60570 : 1993 *Electrical supply track systems for luminaires*, published by the European Committee for Electrotechnical Standardization (CENELEC) and incorporating its Corrigendum : 1993. It was derived by CENELEC from IEC 570 : 1985 and Amendment 2 : 1993 published by the International Electrotechnical Commission (IEC). This British Standard supersedes BS 4533 : Section 102.57 : 1990 *Luminaires Part 102 : Particular requirements Section 102.57 : Electrical supply track systems for luminaires*, which is withdrawn. The CENELEC common modifications have been implemented at the appropriate places in the text and are indicated by a side line in the margin. Parts of the original IEC text that have been modified by CENELEC have been quoted in national annex NA.

The foreword of the EN 60570 : 1993 makes reference to the 'date of withdrawal', due, of the conflicting national standards. In this case the relevant national standard is BS 4533 : Section 102.57 : 1990 which will be withdrawn on 1 March 1994. Certificates and Marks will not be awarded after this date with respect to the withdrawn British Standard. However such Certificates and Marks, already awarded, may continue to apply to production until 1 March 1999.

Additional information

In BS EN 60570 : 1994, where the words 'Publication 598-1' appear, they should be read as 'BS EN 60598-1 : 1993'.

The European Standard is a harmonized standard in the terms of the Low Voltage Electrical Equipment (Safety) Regulations 1989.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Descriptors: Luminaire, track systems, tests, supply connection, electrical grounding, thermal endurance, operating temperatures, polarity

English version

Electrical supply track systems for luminaires

(IEC 570 : 1985 + A2 : 1993, modified)

Systèmes d'alimentation électrique par rail
pour luminaires
(CEI 570 : 1985 + A2 : 1993, modifiés)

Elektrische Stromschienen-Systeme für
Leuchten
(IEC 570 : 1985 + A2 : 1993, modifiziert)

This European Standard was approved by CENELEC on 1993-07-06. CENELEC 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 Central Secretariat or to any CENELEC 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 CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B-1050 Brussels

Foreword

At the request of the CENELEC Technical Committee TC 34Z, Luminaires and associated equipment, the text of the International Standard IEC 570 : 1985 and its amendment 2 : 1993 (including amendment 1 : 1990) with common modifications prepared by TC 34Z, was submitted to the CENELEC Unique Acceptance Procedure (UAP) in August 1992 for acceptance as a European Standard.

The text of the draft was approved by CENELEC as EN 60570 on 6 July 1993.

The following dates were fixed:

- latest date of publication
of an identical national
standard (dop) 1994-03-01
- latest date of withdrawal
of conflicting national
standards (dow) 1994-03-01

For products which have complied with EN 60570 : 1989 before 1994-03-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 1999-03-01.

Annexes designated 'normative' are part of the body of the standard.

Annexes designated 'informative' are given only for information.

In this standard, annexes ZA and ZC are normative and annex ZB is informative.

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ELECTRICAL SUPPLY TRACK SYSTEMS FOR LUMINAIRES

1. Scope

This standard applies to track systems with two or more poles for the connection of luminaires to the electrical supply, either of rated voltage not exceeding 440 V between poles with provision for earthing (Class I) and a rated current not exceeding 16 A per conductor, or of a rated SELV not exceeding 25 V without provision for earthing (Class III) and rated current not exceeding 25 A per conductor. 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.

This standard shall be read in conjunction with the sections of IEC 598-1 to which reference is made.

2. Definitions

For the purposes of this standard, the definitions of Section One of IEC Publication 598-1 apply together with the following definitions:

Note. – The use of the term luminaire (see Publication 598-1) hereinafter also includes components of the luminaire track system.

2.1 Luminaire track system

A 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 Sub-clauses 2.2 to 2.8 (See also Figure 1, page 13.)

2.2 Track

A generally linear assembly of conductors within a housing providing for the mechanical support and electrical connection of luminaires.

Note. – Luminaires can be positioned or repositioned along the length of track in a simple manner (that is, without the use of tools).

2.3 Coupler

A component enabling electrical or mechanical connection to be made between tracks.

2.4 Track supply connector

A component used for the electrical connection of a mains supply to the track.

Note. – The functions of a coupler and a track supply connector may be combined.

2.5 Luminaire supply connector

A component for the electrical connection of a luminaire to the track. A connector does not provide mechanical connection of a luminaire to the track.

2.6 Adaptor

A component used for the electrical and mechanical connection of a luminaire to the track.

Note. – An adaptor may incorporate a switch or a fuse.