

Railway terminal box eye distance



Article Overview

The eye distance of railway terminal boxes typically corresponds to standard DIN rail spacing, commonly 5 mm to 10 mm between mounting holes, depending on the terminal block type and rated current.

Overview

In railway electrical systems, terminal boxes house terminal blocks that connect signaling, control, and power circuits. The eye distance refers to the center-to-center spacing of the mounting holes (or eyelets) used to secure the terminal blocks to a DIN rail or directly to the enclosure. Proper spacing ensures mechanical stability, electrical safety, and compliance with standards such as EN 60079-7 for explosive atmospheres or ATEX directives when applicable ().

Standard Mounting Practices

- **DIN Rail Mounting:** Most railway terminal blocks are designed for top-hat (TS35) DIN rails, which are widely used in control cabinets. The eye distance aligns with the DIN rail clip positions, typically 5 mm to 10 mm apart for smaller blocks and up to 15 mm or more for larger multi-level blocks ().
- **Feed-through and Multi-level Blocks:** For feed-through or double-deck terminal blocks, the eye distance may vary to accommodate multiple connections while maintaining safe creepage and clearance distances ().
- **End Brackets and Spacers:** End brackets or separators are used to maintain consistent spacing between terminal blocks, preventing gaps and ensuring secure mounting ()....

Article Content

Jan 01, 2026

RAILWAY TRACK SIDE DISCONNECTION BOX & COMBINED

The Disconnect terminals of type WTL/6/1/STB and Feed through terminals of type WTD/6/1 are provided in DBOX / CCTBs. These terminal numbers are identified by Dekafix marking

Jan 16, 2026

Signalling control

Class 66 at Bardon Hill signal box in Leicestershire, England. It is a Midland Railway signal box dating from 1899, although the original mechanical lever frame has

Apr 28, 2026

Terminal blocks - From the pioneer of connectivity

Our PUSH IN terminal blocks with wire side entry are ideal for use in compact and confined installation spaces. Whether control cabinet or distribution box, the time and space-saving lateral PUSH IN

Apr 18, 2026

Indian Railways

INDIAN RAILWAY STANDARD SPECIFICATION for CABLE TERMINATION BOXES (INDOOR) FOR RAILWAY ELECTRIFIED AREAS (Tentative) Serial No. TC18-75 0. FOREWORD 0.1 This

Jun 10, 2026

INDIAN RAILWAYS RESEARCH DESIGNS & STANDARDS

6.3 Disconnect terminal blocks shall be supplied in group of terminal blocks with all accessories along with mounting rail in a suitable junction box to form a cohesive CT box referred to as „CTB as per

Dec 25, 2025

Distance between DIN rails. : r/PLC

Hi! I'm new to terminals/Panels in general and need to know the industry standard for the distance between two terminal/DIN rails. I'm currently developing a tool that needs to be mounted on rails for

Oct 02, 2025

Terminal box, terminal boxes, terminal boxes, terminal box

Terminal boxes are suitable for the following areas of application, for example: Wiring technology, measurement and control technology, control engineering, lift construction, mechanical engineering,

Jun 21, 2026

Tips and Responsibilities for Using Rail-Mount Terminal

We've compiled helpful information for the correct handling of WAGO rail-mount terminal blocks. Here you'll find answers to frequently asked questions

May 17, 2026

Boxing System of Eyeglass Frame Measurement

Understanding Eyeglass Measurements: The Boxing System In 1962 the Optical Manufacturers Association adopted the boxing system to provide a standard for eyeglass frame and

Jul 12, 2026

Crouse-Hinds series GHG7 Terminal Boxes catalog page

The snap-out terminal rails allow a problem-free feeding-in of cables. The well-proven clip-in flanges in moulded plastic or metal design allow multiple application possibilities. As a result of the optimized

Sep 08, 2025

One Terminal Box | Any Industry | Innovations | R. STAHL

A terminal box ensures the manageable connection of various electrical components. In order to cater to all industry applications, we have a wide range of terminal as well as junction boxes.

Jan 14, 2026

Microsoft Word

Introduction The new CEE 598 RTD Railway Terminal Design & Operations course introduces students to the role of terminals in the freight railway transportation system, the functions required at different

Jul 07, 2026

Metric Eye Terminals | BelMetric Fasteners

Eye terminals provide secure electrical termination using a ring-style connection for maximum mechanical retention. Available insulated, non-insulated, or with European double-crimp barrels,

Nov 24, 2025

RBDG-MAN-025-0109_InfrastructureFacilities

The maximal distance of the train stretching depends on the train length and the gradient of the track. Considering a train length of 1,050 m and the European practice, the length of protection sections

Aug 05, 2025

TERMINAL BOXES

TERMINAL BOXES TECHNICAL SPECIFICATIONS TYPE DESIGNATION OF INSTRUMENT ENCLOSURES • • v w • • G= Enclosure without sight glass

Apr 14, 2026

Railway Station Design Standards and Guidelines

The platform height is defined as the vertical distance separating the rail level and the top of the platform edge. The actual platform edge distance running parallel to the track from one the end

Jan 21, 2026

Design Manual for Medium to Small Stations

The Network Rail Built Environment Accessibility Panel (BEAP) were engaged at early concept stages. They are supportive of the proposals and excited about the potential for independent, safe and

Jul 21, 2026

50-4: Standardizing Fundamental Criteria for Near Eye

The eye-box is one of the fundamental characteristics of a near-eye display. A complete 3D evaluation of the eye-box is generally difficult and time consuming. A new efficient eye-box ...

Jul 22, 2026

Design guidelines

The exit route from the train to the outside of the station shall be even more intuitive and easier than the access as many passengers arrive simultaneously, and areas might become crowded.

Oct 21, 2025

St Pancras railway station

Also in 1978, a Private Eye piece claimed that British Rail really wanted to demolish St Pancras but were opposed by "a lot of long-haired sentimentalists" and

Jan 08, 2026

Terminal boxes | Junction boxes | Ex | Ex e | Ex d | ATEX | Explosion ...

We offer bespoke, custom-made terminal boxes and terminal box combinations, as well as standard products with short delivery times. Our products are certified for installation technologies all over the

Dec 08, 2025

CHAPTER 6 RAIL FACILITIES, UTILITIES AND

AREMA Manual for Railway Engineering Revision Marks – All current year revisions (changes and additions) which have been incorporated into the document are identified by a vertical line along the

Dec 23, 2025

Outdoor electrical enclosures for railway | Delvalle Box

Electrical enclosures for the railway sector: stations, trackside signalling, barrier control and points. Outdoor cabinets for exposed track sites.

Aug 05, 2025

ESS-07-03

The signal should be viewed from a distance of approximately 300 metres, or at the maximum sighting distance, or from the signal in the rear, whichever distance is the lesser.

Jan 21, 2026

Railway Station Design Standards and Guidelines PDF | PDF ...

The platform height is defined as the vertical distance separating the adjacent rail headplane and the platform level. The engineering requirements for the platform height are outlined in Section 18.3.

Jul 21, 2026

Information about EX APPLICATIONS

If the terminal blocks are combined with other certified series and sizes and when their accessories are used, the required creepage distances and clearances must be adhered to.

Apr 01, 2026

(PDF) Railway Signalling Principles

PDF | This is the preprint of a new E-book on railway signalling principles that will be published for open access later this year. It explains the... |

Mar 28, 2026

ESS-07-03

For sighting distances less than 150 metres, the viewer's eye level needs to be elevated to close to driver's eye level (between 2.4 and 3.3 metres above rail level).

Contact Us

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