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**General technical specifications of Tramway signal system
(English Translation)**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard was proposed by the Standard Rating Institute of the Ministry of Housing and Urban-Rural Development.

This standard is under the jurisdiction of the Urban Rail Transit Standardization Technical Committee of the Ministry of Housing and Urban-Rural Development.

The organization responsible for drafting this standard. Tonghao Wanquan Signal Equipment Co., Ltd.

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1 Scope

This standard specifies the general requirements, performance requirements, reliability, availability, maintainability and safety requirements of the tram signal system.

System composition, functional requirements, interface requirements with other systems, electromagnetic compatibility protection, test methods and inspection rules, signs, labels, accompanying documents, Packaging, transportation and storage.

This standard applies to tram signal systems.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB/T 12758 General technical conditions for urban rail transit signal system GB/T 21562 Rail transit reliability, availability, maintainability and safety specifications and examples GB/T 24338.5 Rail Transit Electromagnetic Compatibility Part 4: Signal and Communication Equipment Emission and Immunity GB/T 28808 Rail transit communication, signal and processing system control and protection system software GB/T 28809 Rail Transit Communication, Signal and Processing System Signal Safety Related Electronic System GB 50174 Data Center Design Specification GB 50343 Technical Specification for Lightning Protection of Building Electronic Information System TB/T 3027 Technical conditions for computer interlocking of railway stations

3.1 Terms and definitions

The following terms and definitions apply to this document.

3.1.1

Tramwaysignalsystem

According to the relative position and status of the tram and the line equipment, the tram operation command, operation control, and road connection can be realized manually or automatically.

A unified and coordinated automatic control system for road traffic signal control.

3.1.2

Dedicatedtrackcircuit it is suitable for trams and realizes the non-insulation resonant track circuit for section idle or occupancy detection.

3.1.3

Mainlineswitchcontrolsystem A system used to realize the interlocking control of main line turnouts, signals, and section idle or occupied detection equipment.

3.1.4

Level crossing signal control system Connect with the road traffic signal control system to realize the coordinated control of road traffic signals and tram signals at level crossings system.