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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 46690-2025

**Technical specification for alarm information and fault grading
of urban rail transit signalling systems**

城市轨道交通信号系统报警信息及故障分级技术规范

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the Ministry of Transport of the People's Republic of China. This document is under the jurisdiction of the National Technical Committee on Standardization of Urban Passenger Transport (SAC/TC529). This document was drafted by: Beijing MTR Corporation Limited, China Academy of Transportation Sciences, and Shanghai Shentong Metro Group Co., Ltd. Beijing Railway Signal & Communication Research and Design Institute Group Co., Ltd., CASCO Signal Co., Ltd., Traffic Control Technology Co., Ltd., Shanghai Electric Thales Transportation Automation Systems Ltd., Zyxel Rail Transit Technology Co., Ltd., Beijing Jiaotong University, Beijing Municipal Commission of Transport Beijing Rail Transit Operation Management Co., Ltd., Beijing Subway Operation Co., Ltd. Communication and Signaling Branch, Tianjin Rail Transit Operation Group Limited Liability Company, Dalian Public Transport Construction Investment Group Co., Ltd., Xiamen Rail Construction Development Group Co., Ltd., Beijing Dinghan Technology Group Joint-stock limited company, CRRC Qingdao Sifang Locomotive & Rolling Stock Co., Ltd., and Hunan Railway Vocational College of Science and Technology. The main drafters of this document are. Liu Zhuiming, Wang Jiangtao, Song Xiaomin, Hong Haizhu, Jiang Lei, Li Chong, Wang Jing, Feng Xujie, Wu Ke, Chai Juan, and Hu Enhua. Cui Mingsong, Fan Ying, Jia Qingdong, Liu Huiming, Li Yongkang, Wang Feijie, Zhang Kun, Li Xuekuo, Zhang Wei, Yu Xiaohong, Liu Demin, Zhang Yan, Zhao Yongshun Zhang Yaopeng, Gao Tongxin, Qin Xuemei, Sun Zhaolan, Liu Jiang, Zhang Yong, Han Zhen, Wei Shengxin, Wen Qian, Lu Danlei, Liu Chunyang, Meng Deyou, Wan Xia, Liu Hong He Qingquan, Huang Changbing, Gao

Guozhen, Jin Hua. Alarm information of urban rail transit signaling system and Fault Classification Technical Specification

1 Scope

GB/T 46690-2025 is the Chinese national standard covering the alarms a metro signalling system raises and how serious each is - the grading from an event that degrades nothing to one that stops the line, the information an alarm must carry, and the response each grade demands from the control centre. At 26,500 words. An alarm flood the operator cannot rank is the same as no alarms. First edition, under the Ministry of Transport, in force from 1 February 2026. Issued on 31 October 2025, it has been in force since 1 February 2026.

This document specifies alarm information (hereinafter referred to as alarm) and fault information (hereinafter referred to as fault) of urban rail transit signaling system. The document outlines the overall requirements for fault classification, alarm information requirements, and fault classification requirements, and describes its verification method. This document applies to the functional design, equipment use, and operation of urban rail transit signaling systems based on communication-based train operation control systems. Maintenance is required.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 12758 General Technical Requirements for Signaling Systems in Urban Rail Transit

GB/T 32852.3 Urban Passenger Transport Terminology Part

3 Terms and Definitions

The terms and definitions defined in GB/T 12758 and GB/T 32852.3, as well as the following terms and definitions, apply to this document.

3.1 fault The system or device is unable to perform its intended function.

Note. This excludes preventative maintenance or other planned activities, or situations where external resources are unavailable. [Source: GB/T 7826-2012, 3.3, with modifications]

3.2 alarm Provide visual or auditory information to operators that requires a response to a fault or other abnormal event.

Note. Alarms are divided into fault alarms and other abnormal event alarms. [Source: GB/T 41261-2022, 3.1.7, with modifications]

4. Abbreviations The following abbreviations apply to this document. AP. Wireless Access Point

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