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

GA/T 527.3-2018

**Road traffic signal control mode--Part 3: Requirements for
implementation of isolated intersection control mode**

道路交通信号控制方式 第3部分：单点信号控制方式实施要求

(English Translation)

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Foreword

GA/T 527 "Road Traffic Signal Control Method" is divided into the following sections.

- Part 1. General technical conditions;
- Part 2. Accessibility status and control benefit evaluation indicators and methods;
- Part 3. Implementation requirements for single-point signal control methods;
- Part 4. Implementation requirements for trunk line coordination signal control methods;
- Part 5. Variable guide lane traffic control rules;
- Part 6. Priority control rules for bus intersections;
- Part 7. Priority control rules for tram crossings;
- Part 8. The tidal lane traffic control rules;
- Part 9. ramp control rules.

This part is the third part of GA/T 527.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part is proposed and managed by the Ministry of Public Security Road Traffic Management Standardization Technical Committee.

This section is responsible for drafting the unit. Traffic Management Science Research Institute of the Ministry of Public Security.

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1 Scope

This part of GA/T 527 specifies the classification, setting conditions, implementation flow, signal control strategy and plan for single-point signal control methods.

Technical requirements such as formulation and control of time division, control mode selection, phase phase sequence setting, signal timing parameters and control scheme evaluation.

This section applies to the design and application of single-point signal control methods.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB 14886 Road traffic signal installation and installation specifications GB/T 31418 Road Traffic Signal Control System Terminology GA/T 527.1-2015 Road traffic signal control methods - Part 1. General technical conditions GA/T 527.2 Road traffic signal control methods - Part 2. Assessments and methods

3 Terms and definitions

The terms and definitions defined in GB/T 31418 and GA/T 527.1-2015 apply to this document.

4 Classification

Single-point signal control methods include. single-point timing control, single-point sensing control, and single-point adaptive control.

5.1 Road and traffic flow conditions

To set up single-point signal control, the following conditions must be met.

- a) The intersection is relatively independent in the road network, and the distance from the adjacent intersection is relatively large;
- b) The intersection of traffic intersections with adjacent intersections is not obvious.

5.2 Signal control conditions

To implement single-point signal control, the following conditions must be met.

a) The road traffic signal controller should support multi-time single-point signal control mode, which can be independently operated and controlled.

Phase sequence

b) When using single point induction control and single point adaptive control mode, traffic flow detector should be set;

c) When setting the single inlet release phase or the overlapping phase, a non-motorized signal light should be set.

6 Implementation process

The single point signal control implementation process should include the following steps.