



Transport
Roads & Maritime
Services

Traffic Signal Design

Appendix B Traffic Signal Symbols

Issue No: 1.2 20 October 2017



Preface

The traffic signal design guidelines have been developed to assist in designing traffic control signals. The information contained in the various parts is intended to be used as a guide to good practice. Discretion and judgement should be exercised, taking into account all the factors that may influence the design of traffic signals at any particular site.

The guidelines make reference, where relevant, to current Australian Standards or the Austroads Guides, and are intended to supplement and otherwise assist in their interpretation and application. If any conflict arises, the Australian Standards, the Austroads Guides and the RMS Supplements are to prevail.

The complete set of traffic signal design guidelines is as follows.

Section Title	Appendix Title
1 Investigation	A Design Plan Checklist
2 Warrants	B Traffic Signal Symbols
3 Design Process	C Location and Function of Lanterns
4 Plan Requirements	D Location and Dimensions of Components
5 Geometry	E Left Turn on Red
6 Pavement Marking	F Level Crossing Interface – Concept of Operations
7 Phasing and Signal Group Display Sequence	F Level Crossing Interface – Concept of Operations
8 Lanterns	G Level Crossing Interface – Traffic Signal Design Guidance
9 Posts	
10 Signs	
11 Detectors	
12 Controller	
13 Provision for Future Facilities	
14 Signalised Mid-block Marked Footcrossings	
15 Special Situations	
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Primary references and complementary material

Roads and Maritime has adopted the Australian Standards and the Austroads Guides as its primary technical references. Roads and Maritime has developed the following complementary material which must be used in conjunction with the Standards and Guides.

- Australian Standards Traffic Supplements.
- Supplements to the Austroads Guides.
- Traffic Signal Design Guide.
- Delineation Manual.
- NSW Bicycle Guidelines.
- Standard Drawings.
- Technical Directions.
- Technical Specifications.

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About this release

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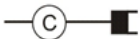




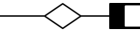



Issue	Date	Section	Description	Approver
1.0	Feb 2008		Initial release.	M Bushby, Dir Network Management
1.1	Aug 2008	1.1	Description of type of B lantern changed.	R O'Keefe Mgr Policies & Guidelines
1.2	Oct 2017	All	New template and corporate identity.	B Turner PM Network Operations
		1.1	Add pedestrian countdown timer. Add combined pedestrian/bicycle with and without countdown timer.	
		1.2	Update reference to AS 2144.	
		1.3	Add post types 7 & 8. Add temporary Type 2 post. Amend description for Type 13 post. Add TIRTL detector Add remark to pedestrian dual standard push button. Add safety camera and UPS housing.	
		1.4	Add sign R6-256. Add remark to one way street symbol.	


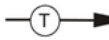
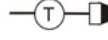





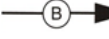
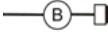
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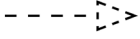
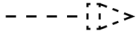
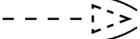
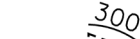
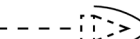

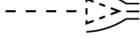
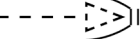
1.1 Lanterns

Type	Display	Symbol	
<u>Vehicle</u> 3 aspect		<u>200 mm</u> 	<u>300 mm</u>
4 aspect			NA
			NA
			NA
			NA
5 aspect			
<u>Vehicle</u> 6 aspect			
<u>Railway</u> Level crossing flashing light assembly	R6-25 W7-2 R6-9 		R
			R
Advance warning lanterns			Y
			Y
<u>Pedestrian</u> 2 aspect	 		
Countdown timer	 		
<u>Emergency service</u> Green and red wall fitting			R
			G












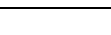














Type	Display	Symbol
<u>Bicycle</u> 2 aspect		
3 aspect		
Combined pedestrian/ bicycle	 	
Combined pedestrian/ bicycle with countdown timer	 	





Type	Display	Symbol	
<u>Tram</u> (light rail)		<u>200 mm</u> 	<u>300 mm</u> 
<u>Bus</u> 4 aspect	 		n/a 
3 aspect			

1.2 Visors and louvres
















Type	Description	Symbol	Remarks
<u>Visors</u> (see AS 2144-2014)			The lantern symbol on this chart is shown in a broken line.
Type A – open visor	200 mm long on 200 mm lantern		Visor symbol not required
	300 mm long on 300 mm lantern		
Type B – closed visor	200 mm long on 200 mm lantern		
	300 mm long on 200 mm lantern		
	300 mm long on 300 mm lantern		
	400 mm long on 300 mm lantern		
<u>Louvres</u> (see AS 2144-2014)	Vertical louvres		Not available for 300 mm lanterns
	Horizontal louvres		




1.3 Controllers, posts and detectors

Type	Description	Symbol	Remarks	
Controllers	Ground mounted		Symbol to be labelled "Controller" and lead arrow added.	
	Post mounted			
Standard posts	Types 1, 2 & 7		Length and type shown in post chart or notes on design plan.	
	Type 2 temporary			
	Types 6 & 8			
Mast arms	Type 3		4.3 m long arm	Length of arm should be to scale. Type shown in post chart or notes on design plan. Type 3 not to be used on new designs.
	Type 4		1.52 m long arm	
	Type 5S		2.5 m long arm	
	Type 5L		5.0 m long arm	
	Type 5XL		5.5 m long arm	
	Type 9		2.5 m to 7 m long arm – used in regions A & B. Loading restrictions apply in region B.	
	Type 10		Max 16.0 m long arm in region A. Max 11.0 m long arm in region B.	
	Type 11		16.0 m long arm in region A. 9.0 m long arm in region B.	With additional cable entry point along the arm.
	Type 12		Similar to Type 10 & 11 with additional two cable entry points along the arm.	
Push button post	Type 13		Short push button post 1.4 m long.	
Multi-function posts	Type 14			
	Type 15		With mast arm attachment	
Poles	Electricity supply (for controller)	 Supply	Symbol to be labelled "Supply".	
Detectors	Presence loop		Showing detector to scale (direction of travel L→R)	
	Passage loop			
	Microwave			
	Emergency service push button			
	TIRTL			
Pedestrian push button on post	Single standard		Show on side of post where physically located	
	Dual standard	 	Audio-tactile driver units must not be fitted to dual standards	

Type	Description	Symbol	Remarks
	Audio-tactile		
	Tactile only		
Cameras	Closed circuit TV		
Housings	Other housings		Red light safety camera (RLSC) Uninterruptible power supply (UPS)

1.4 Signs and symbols

Type	Description	Symbol	Remarks
Painted signs	No left turn		R2-6(L)
	No right turn		R2-6(R)
	Buses excepted		R9-2 supplementary plate
	No entry		R2-4
	All traffic left or right		R2-14(L) or R2-14(R)
	Turn left at any time with care		R2-16
	One way traffic left or right		R2-2(L) or R2-2(R)
	Left turn on red permitted after stopping		R2-20
	Traffic lights		W3-3
	Give way to pedestrians		R2-10
	Pedestrian crossing symbol		R3-1 associated with marked foot crossings
	Pedestrians may cross diagonally		R3-5(R) and R3-5(L)
	Do not queue across intersection		G9-237
	Stop here on red signal		R6-6
Stop here on red arrow		R6-14	

Type	Description	Symbol	Remarks
	Stop here on red arrow otherwise turn left with care		R6-256
	Traffic signal stop		R1-4
One way street	Indication of one way street		Indicator on TCS plans only. Not a pavement marking.

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Customer feedback
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