



Transport
for NSW

Intelligent Transport Systems

Type Approval

Certificate No:

ITS-TAN000097

Issued to:

Aldridge Electrical Industries Pty Ltd

For:

Device Type	HPSM LED Traffic Signal Lantern		
TfNSW Specification:	TSI-SP-045	Version:	2.0

Summary Scope:

Sizes: **200mm**

Model: **Three Aspect Arrow**

Model Number: **RA443A**

Note: Conditions of approval are on the reverse side of this certificate.

Evaluation Reference:	ITS-EV00186	Approver	Manager TSI
Approver Signature:	<i>Raj J Roychoudhry</i>	Date	31 Jan 2020

A) Description and itemisation of the equipment covered by the type approval:

LED lantern 200mm Three-aspect Arrow (complete lantern models: RA443A), comprising:

- Three section 5052 grade aluminium alloy housing, matt black powder coat finish;
- Black polycarbonate doors and tinted polycarbonate convex lens – UV stabilised, with internal Arrow mask and Fresnel lens;
- Red Arrow aspect TR0254, 5-8 Watts and 4 high power LEDs (LEDs: Nichia Corporation NCSR219B-V1-E);
- Yellow Arrow aspect TR0255, 7-2 Watts and 4 high power LEDs (LEDs: Nichia Corporation NCSA219-V1-E);
- Green Arrow aspect TR0256, 5-8 Watts and 4 high power LEDs (LEDs: Nichia Corporation NCSE219-V1-E);
- Aspect optical chamber ingress protection rating – IP65.

B) Summary of deviations from specified requirements:

Nil.

C) Relevant Specifications, Drawings and Standards:

RMS Specification TSI-SP-045 specifies that the traffic signal lanterns shall comply with all the requirements of AS 2144:2014, except as varied in TSI-SP-045.

D) Conditions of use:

Certificate users shall verify with RMS whether this certificate is current, valid, and applies to the latest RMS specification version, when using in situations where current validity is required.

Individual aspects may be swapped into within the lantern housing, so long as each aspect is approved, to support configurations listed in Traffic Signal Design – Appendix B (RMS/Pub. 08.092).

E) Related Certification History:

Certificate Number	Issued	EV Number	Description or change details