



Transport
for NSW

Intelligent Transport Systems

Type Approval

Certificate No:	ITS-TAN000114
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Issued to:

Aldridge Electrical Industries Pty Ltd

For:

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

Summary Scope:

Sizes: **300mm**

Model: **Three Aspect Roundel**

Model Number: **RA843**

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

Evaluation Reference:	ITS-EV0246	Approver:	Manager TSI
Approver Signature:	<i>Raj J Roychoudhry</i>	Date:	15 Mar 2021

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

LED lantern 300mm Three-aspect Roundel (complete lantern models: RA843), comprising:

- Two section 5052 grade aluminium alloy housing, matt black powder coat finish;
- Black polycarbonate doors and tinted polycarbonate convex lens – UV stabilised;
- Red Roundel aspect TR0351, 12.2 Watts and 9 high power LEDs (LEDs: Nichia Corporation NCSR219B-V1-E);
- Yellow Roundel aspect TR0352, 16.6 Watts and 12 high power LEDs (LEDs: Nichia Corporation NCSA219-V1-E);
- Green Roundel aspect TR0353, 12.7 Watts and 11 high power LEDs (LEDs: Nichia Corporation NCSE219B-V1-E);
- Aspect optical chamber ingress protection rating – IP65.

B) Summary of deviations from specified requirements:

Nil.

C) Relevant Specifications, Drawings and Standards:

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

D) Conditions of use:

Certificate users shall verify with TfNSW whether this certificate is current, valid, and applies to the latest TfNSW 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 Traffic Signal Symbols.

E) Related Certification History:

Certificate Number	Issued	EV Number	Description or change details