



Intelligent Transport Systems

# Type Approval

<b>Certificate No:</b>	<b>ITS-TAN000048</b>
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Issued to:

TYCO Traffic and Transportation

For:

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

Summary Scope:

Sizes: **200mm.**

Models: **ROUNDEL** – Red; Yellow; Green Aspects.

Variants: Aspect lantern configuration permitted as per Traffic Signal Design – Appendix B Traffic Signal Symbols.

Evaluation Reference:	ITS-EV00072	Approver:	Manager TSI
Approver Signature:	<i>Steven Shaw</i>	Date:	03/08/2018

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

LED lantern 200mm Three-aspect Roundel (complete lantern models: 8959 105 00120), comprising:

- Three section 5251 grade aluminium housing, matt black powder coat finish;
- Black polycarbonate doors and tinted polycarbonate convex and diffused lens – UV stabilised;
- Red Roundel aspect TSL-08R-IL6-C2, 11 Watts and 3 high power LEDs (LEDs: Nichia NCSR219BT-V1);
- Yellow Roundel aspect TSL-08Y-IL6-C2, 12 Watts and 3 high power LEDs (LEDs: Nichia NCSA219BT-V1);
- Green Roundel aspect TSL-08G-IL6-BK-C1, 10 Watts and 3 high power LEDs (LEDs: Nichia NCSE219BT-V1);
- 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 V2.0 specifies that the traffic signal lanterns shall comply with all the requirements of AS 2144, except as varied in TSI-SP-045 V2.0.

**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.

**E) Related Certification History.**

Certificate Number	Issued	EV Number	Description or change details