



Intelligent Transport Systems

Type Approval

Certificate No:	ITS-TAN000047
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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: **Two Aspects Bicycle and Three Aspects Bicycle**

Model Number: **8959 105 00110 (Two Aspects) and
8959 105 00115 (Three Aspect)**

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

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 Two-aspect Bicycle (complete lantern models: 8959 105 00110) and 200mm Three-aspect Bicycle (complete lantern models: 8959 105 00115), comprising:

- Two or Three section 5251 grade aluminium housing, matt black powder coat finish;
- Black polycarbonate doors and tinted polycarbonate convex and diffused lens – UV stabilised;
- Red Bicycle aspect TSL-08R-IL6-BK-C2, 11 Watts and 3 high power LEDs (LEDs: Nichia NCSR219BT-V1);
- Yellow Bicycle aspect TSL-08Y-IL6-BK-C2, 10.7 Watts and 3 high power LEDs (LEDs: Nichia NCSA219BT-V1);
- Green Bicycle aspect TSL-08G-IL6-BK-C2, 11 Watts and 3 high power LEDs (LEDs: Nichia NCSE219BT-V1);
- Aspect optical chamber ingress protection rating – IP65;
- The bicycle mask is formed on the exterior lens using black UV paint.

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.

Individual aspects may be swapped into 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