



Intelligent Transport Systems

Type Approval

Certificate No:

ITS-TAN000094

Issued to:

Outsource1

For:

Illuminated Flashing Arrow Signs			
RMS Specification:	TSI-SP-060	Version:	1.0

Summary Scope:

Model: Type – B Arrow board Double-Sided

Model Number: ARRB-LED-G3/B

Arrow Controller: MC30

Software: App_8933_Ver 3022_Test _4

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

Evaluation Reference:	ITS-EV00107	Approver:	Manager TSI
Approver Signature:	<i>Raj J Roychoudhry</i>	Date:	28 Aug 2019

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

LED flashing arrow sign – type ‘B’ (models: ARRB-LED-G3/B double-sided), comprising:

- Black sign board with fifteen (small element) 100mm High Intensity LED lamps on the front panel and fifteen (small element) and 100mm High Intensity LED lamps on the rear panel (LED Lamp PCB model: TE17-026-8935 with 32 LEDs) with visors;
- LED lamp optical chamber ingress protection rating – IP65;
- Dimming control of LED lamps intensity using a photocell incorporated in led element 7;
- Arrow controller (models: MC30);
- 12V and 24V input power capability with a fuse;
- Sign board ingress protection rating – IP65;
- Electric actuator for raising and lowering of sign board.

B) Summary of deviations from specified requirements:

Nil.

C) Relevant Specifications, Drawings and Standards:

RMS Specification TSI-SP-060 specifies that the illuminated flashing arrow signs shall comply with all the requirements of AS 4192:2006, except as varied in TSI-SP-060.

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.

The Type B illuminated flashing arrow sign board is designed for use in Region A, Terrain Category 2 and a maximum viewing distance of 860m.

E) Related Certification History:

Certificate Number	Issued	EV Number	Description or change details