



Intelligent Transport Systems

# Type Approval

|                        |                      |
|------------------------|----------------------|
| <b>Certificate No:</b> | <b>ITS-TAN000043</b> |
|------------------------|----------------------|

Issued to:

**Arrow Emergency Systems Pty Ltd**

For:

|   |              |                 |            |
|---|--------------|-----------------|------------|
| <b>Illuminated Flashing Arrow Signs</b> |              |                 |            |
| <b>RMS Specification:</b>               | <b>FAS/5</b> | <b>Version:</b> | <b>1.0</b> |

Summary Scope:

**Model: Type – B Arrow board Single-Sided**

**Model Number: Type B**

**Arrow Controller: Type A/B**

**Software: V2.5**

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

|                              |                          |                  |                    |
|------------------------------|--------------------------|------------------|--------------------|
| <b>Evaluation Reference:</b> | <b>ITS-EV00114</b>       | <b>Approver:</b> | <b>Manager TSI</b> |
| <b>Approver Signature:</b>   | <i>Raj J Rajchoudhry</i> | <b>Date:</b>     | <b>27/11/2018</b>  |

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

LED flashing arrow sign – type ‘B’ (models: single-sided Type B), comprising:

- Black sign board with fifteen (small element) 100mm High Intensity LED lamps (LED Lamp PCB model: 12V56L PAR36 with 56 LEDs) and visors on the front panel;
- LED lamp optical chamber ingress protection rating – IP66;
- Dimming control of LED lamps intensity using a photocell;
- Arrow controller (models: Type A/B);
- 12V and 24V input power capability with a fuse;
- Sign board ingress protection rating – IP45;
- Electric actuator for raising and lowering of sign board
- Switch-mode voltage converter required for 24V vehicles.

**B) Summary of deviations from specified requirements:**

Nil.

**C) Relevant Specifications, Drawings and Standards:**

RMS Specification FAS/5 specifies that the traffic signal lanterns shall comply with all the requirements of AS 4192:2006, except as varied in FAS/5.

**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                                       |
|--------------------|------------|-----------|---|
| 0911-FAS5-0-1B     | 12/11/2009 |           | 0911-FAS5-0-1B has been renewed and superseded by this certificate. |
|                    |            |           |   |
|                    |            |           |   |