

**Certificate No. NESA-S097**

**Version No. 1.1**

<b>Certificate type</b>	<b><i>Restricted</i></b>
<b>Approval date</b>	<b>01 April 2025</b>
<b>Approved by</b>	<b>Manager Engineering Services</b>
<b>ARTC Inventory Product No.</b>	<b>N/A</b>

*This certificate is issued to*

**Supplier** Aldridge Railway Signals Pty Ltd

*In respect of*

<b>Manufacturer</b>	Aldridge Railway Signals Pty Ltd 44 Adderley Street East Lidcombe NSW 2141
<b>Product description</b>	Aldridge LED modules for Railway Signals
<b>Supplier product no.</b>	See Approved Items List
<b>Application</b>	Railway signalling application – ARTC Network Wide
<b>Relevant standards</b>	SPS 02 - Environmental Conditions SPS 05 – Electrical & Components (Ratings & Construction Requirements) ESA-04-01 – Colour light signals and Indicators

**Conditions of Approval**

**Supplier:**

1. For use in accordance with standard typical circuits only.
2. Limited approval for 24VDC signal modules to be installed at Daroobalgie loop (D-loop – Inland Rail) – Full approval may be provided based on feedback following the commissioning.
3. Only the components listed shall be utilised.
4. Not suitable for use in tunnels.
5. The PT0610 transformer nominal input voltage is 120VAC. Input voltage range shall be 98VAC to 132VAC.
6. The 12VDC versions of the RL500x-x and RL503x-x ranges are suitable to be driven off a PS0610 transformer; nominal input voltage is 120VAC. Input voltage range shall be 98VAC to 132VAC.
7. A general condition of approval is that the supplier remains accredited to ISO 9001 specifically for these products and ARTC is advised on a 12 monthly basis that accreditation is current. ARTC reserves the right to conduct its own audit of the manufacture and supply of these components to AS 19011.
8. Any subsequent change to the design, materials or manufacturing process is not covered by this approval. The manufacturer should notify ARTC of any modification or changes in order to obtain a valid certificate.



## NEW EQUIPMENT AND SYSTEM APPROVAL CERTIFICATE

RL400-2 V1	YELLOW	12VAC / 12VDC	
RL400-3 V1	GREEN		
RL400-4 V1	WHITE		
RL400-5 V1	BLUE		
RL400-6 V1	BLUE/WHITE		

### RL403-x 200mm Main Line LED signal Medium range (nominal 500m)

Module Part No.	Part Description		Comments
RL403-1 V1	RED	12VAC / 12VDC	Not suitable for Microlok
RL403-2 V1	YELLOW		
RL403-3 V1	GREEN		
RL403-4 V1	WHITE		

### RL403L-x 200mm Mainline LED Long Range (nominal 1500m)

Module Part No.	Part Description		Comments
RL403L-1	RED	120VAC	Not suitable for Microlok
RL403L-2	YELLOW		
RL403L-3	GREEN		
RL403L-4	WHITE		

### RL495 Repeater Signal (4 White Lights) (nominal 600m)

Module Part No.	Part Description		Comments
RL495	WHITE	120VAC	Not suitable for Microlok

### RL495M Repeater Signal (4 White Lights) Microlok (nominal 600m)

Module Part No.	Part Description		Comments
RL495M	WHITE	12VDC	Suitable for Microlok

## NEW EQUIPMENT AND SYSTEM APPROVAL CERTIFICATE

### RL500S-x 125mm Subsidiary LED SHORT range (nominal 150m)

Module Part No.	Part Description		Comments
RL500S-1	RED	12VDC and 24VDC	Not suitable for Microlok
RL500S-2	YELLOW		
RL500S-3	GREEN		
RL500S-4	WHITE		
RL500S-4LA	WHITE (LEFT ARROW MASK)		Nominal range 20m. Not suitable for Microlok
RL500S-4RA	WHITE (RIGHT ARROW MASK)		
RL500S-5	BLUE		Not suitable for Microlok
RL500S-6	BLUE/WHITE		

### RL500M-x 125mm Subsidiary LED Medium range (nominal 500m)

Module Part No.	Part Description		Comments
RL500M-1	RED	12VDC and 24VDC	Not suitable for Microlok
RL500M-2	YELLOW		
RL500M-3	GREEN		
RL500M-4	WHITE		
RL500M-5	BLUE		
RL500M-6	BLUE/WHITE		

### RL503M-x 200mm Mainline LED MEDIUM range (nominal 500m)

Module Part No.	Part Description		Comments
RL503M-1	RED	12VDC and 24VDC	Not suitable for Microlok
RL503M-2	YELLOW		
RL503M-3	GREEN		
RL503M-4	WHITE		

### RL503I-x 200mm Mainline LED INTERMEDIATE range (nominal 1000m)

Module Part No.	Part Description		Comments
RL503I-1	RED	12VDC and 24VDC	Suitable for Microlok
RL503I-2	YELLOW		

## NEW EQUIPMENT AND SYSTEM APPROVAL CERTIFICATE

RL503I-3	GREEN		
RL503I-4	WHITE		

### RL503L-x 200mm Mainline LED LONG range (nominal 1500m)

Module Part No.	Part Description		Comments
RL503L-1	RED	12VDC and 24VDC	Suitable for Microlok
RL503L-2	YELLOW		
RL503L-3	GREEN		
RL503L-4	WHITE		

### RL526M-xx Mini Multilight Route Indicator Microlok Short Range (nominal 50m)

Module Part No.	Part Description		Comments
RL526M-xx	WHITE	12VDC	'xx' represents the required characters

### RL526-xx Mini Multilight Route Indicator Short Range (nominal 50m)

Module Part No.	Part Description		Comments
RL526-xx	WHITE	120VAC	'xx' represents the required characters

### RL550-x 125mm Subsidiary LED (nominal 200m)

Module Part No.	Part Description		Comments
RL550-1	RED	12VDC	Suitable for Microlok
RL550-2	YELLOW		
RL550-3	GREEN		
RL550-4	WHITE		

### RL55xV/Hx Stencil Route Indicator SRI 2 Aspect short range (nominal 50m)

Module Part No.	Part Description		Comments
RL551Vx	WHITE	120VAC	Vertical
RL552H	WHITE		Horizontal

## NEW EQUIPMENT AND SYSTEM APPROVAL CERTIFICATE

### RL55xMV/Hx Stencil Route Indicator SRI Microlok 2 Aspect short range (nominal 50m)

Module Part No.	Part Description		Comments
RL551MVx	WHITE	12VDC	Vertical
RL552MH	WHITE		Horizontal

### RL570-x 200mm Medium Range Mainline Microlok LED (nominal 600m)

Module Part No.	Part Description		Comments
RL570-1	RED	12VDC	Suitable for Microlok
RL570-2	YELLOW		
RL570-3	GREEN		
RL570-4	WHITE		

### RL570S-x 200mm Short range Microlok (nominal 150m)

Module Part No.	Part Description		Comments
RL570S-1	RED	12VDC	Suitable for Microlok
RL570S-2	YELLOW		
RL570S-3	GREEN		
RL570S-4	WHITE		

### RL620-x Short Range Theatre Route Indicator (TRI) (nominal 250m)

Module Part No.	Part Description		Comments
RL620-x	WHITE	120VAC	'x' represents the required characters

### RL620M-x Short range Theatre Route Indicator (TRI) Microlok (nominal 250m)

Module Part No.	Part Description		Comments
RL620M-x	WHITE	12VDC	'x' represents the required characters

## NEW EQUIPMENT AND SYSTEM APPROVAL CERTIFICATE

### R999-X105x Medium Range Turnout Repeater TOR (nominal 600m)

Module Part No.	Part Description		Comments
R999-X1053	WHITE - LH	120VAC	
R999-X1054	WHITE - RH		
R999-X1055	WHITE - LH + RH		

### R999-X105xM Medium Range Turnout Repeater TOR Microlok (nominal 600m)

Module Part No.	Part Description		Comments
R999-X1053M	WHITE - LH	12VDC	
R999-X1054M	WHITE - RH		
R999-X1055M	WHITE - LH + RH		

### RL608 Points Position Indicator (PPI) (nominal 120m)

Module Part No.	Part Description		Comments
RL608	WHITE – LEFT DIVERTED BAR  WHITE – STRAIGHT BAR  WHITE – RIGHT DIVERTED BAR  RED – HORIZONTAL BAR	110VAC	To be used for the Port of Melbourne Swanson Doc siding works only.

### For 120VAC Signals

Module Part No.	Part Description	Comments
PS0180	Power Supply LED – 12VAC/12VDC Input	
PT0610	Transformer 120VAC Input /12VAC Output 30VA	