

Certificate No. NESA-S097 **Version No:** 1.0

Approval date 22 May 2023

Approved by Head of Engineering Standards

This certificate is issued to

Supplier Aldridge Railway Signals Pty Ltd

In respect of

Manufacturer Aldridge Railway Signals Pty Ltd
44 Adderley Street
East Lidcombe NSW 2141

Product description Aldridge LED modules for Railway Signals

Item identification See Approved Items List

Application Railway signalling application – ARTC Network Wide

Relevant Standards SPS 02 - Environmental Conditions
SPS 05 – Electrical & Components (Ratings & Construction Requirements)
ESA-04-01 – Colour light signals and Indicators

Conditions of Approval

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.

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.

NEW EQUIPMENT AND SYSTEM APPROVAL CERTIFICATE

Any subsequent change to the design, materials or manufacturing process is not covered by this approval. The manufacturer shall notify ARTC of any modification or changes in order to obtain a valid certificate.

Note/Comments

Issue date 22/05/2023

Expiry date N/A

Issued by

ARTC Manager Signalling Standards

Approved Item list

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Manufacturer Aldridge Railway Signals Pty Ltd
Product Description Aldridge LED modules for Railway Signals

RL400A-x 125mm Subsidiary LED Short range (nominal 200m)

Module Part No.	Part Description		Comments
RL400A-1	RED	120VAC	Not suitable for Microlok
RL400A-2	YELLOW		
RL400A-3	GREEN		
RL400A-4	WHITE		
RL400A-5	BLUE		

RL400S-x 125mm Subsidiary LED Short range (nominal 150m)

Module Part No.	Part Description		Comments
RL400S-1	RED	120VAC	Not suitable for Microlok
RL400S-2	YELLOW		
RL400S-3	GREEN		
RL400S-4	WHITE		
RL400S-5	BLUE		
RL400S-6	BLUE/WHITE		

RL400-X 125mm Subsidiary LED signal short range (nominal 200m)

Module Part No.	Part Description		Comments
RL400-1 V1	RED	12VAC / 12VDC	Not suitable for Microlok
RL400-2 V1	YELLOW		
RL400-3 V1	GREEN		
RL400-4 V1	WHITE		
RL400-5 V1	BLUE		
RL400-6 V1	BLUE/WHITE		

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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

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

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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		
RL503I-3	GREEN		
RL503I-4	WHITE		

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

Module Part No.	Part Description		Comments
RL503L-1	RED		Suitable for Microlok

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RL503L-2	YELLOW	12VDC and 24VDC	
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

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

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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

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		

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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		

For 120VAC Signals

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