Technology Introduction Group
Network Rail Engineering Directorate
Floor 5, 40 Melton Street
London. NW1 2EE

Network Rail

Certificate of Acceptance

Certificate No: PA05/03335 Issue: 2

Valid from: 13/01/2012

Product	Universal Semaphore Lamp in LED form
Manufacturer	Unipart Rail – Dorman Wennington Road Southport PR9 7TN

Network Rail Acceptance Panel (NRAP) hereby authorises the product above for use on railway infrastructure for which Network Rail is the Infrastructure Manager under the ROGS regulations.

Failure to abide by the requirements in this Certificate of Acceptance may invalidate the certificate, thereby restricting the right to operate the product and / or limiting the future supply and deployment of the product on the infrastructure.

This certificate can only be amended by Network Rail Engineering directorate. Any alterations made by a different person will invalidate the entire certificate.

Scope of Acceptance

- Accepted for use with semaphore signals throughout Network Rail.
- Red filter kit accepted for use with the universal semaphore lamp as a buffer stop lamp
- Accepted for use and as a swing bridge lamp in White and Red (note this does not include use as Red / Green navigation lamp)

Specific conditions

- Consecutive or parallel signals that are in the field of view of a diver of an approaching train shall be commissioned contemporaneously, irrespective if they are on the same or adjacent signal box areas of control.
- The order of commissioning of signals shall always be in the direction of travel.
- All arms and discs on gantries or cantilever / bracket structures are fitted contemporaneously.
- Single lines and two track 'Up' and 'Down' lines may be considered as separate entities providing that the conditions above are applied to each direction of travel.

Authorised by

Edward C. Rollings MSc, CEng, MIET, FIRSE
Professional Head, Signals & Telecommunications Engineering

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SPECIFIC CONDITIONS

1) Manufacturer

The Manufacturer shall:

1) Ensure that all products supplied under this certificate comply with the standards defined in the Acceptance Requirements or otherwise documented as part of the assessment, including meeting the reliability requirements included in the Acceptance Requirements and in any deed of warranty for this certificate number.
2) Notify Network Rail Technology Introduction Group:
    a. Within 48 hours, of any deficiencies affecting the quality, functionality or safety integrity of the product (including corrective action undertaken or proposed).
    b. Of any intended change to the accepted product; changes include:
        i. a change to the product configuration (to the actual product or its application);
        ii. a variation to or addition of manufacturing locations or processes;
        iii. a change in the name or ownership of the manufacturing company;
        iv. any changes to the ability or intention to support with technical services, spares or repairs.
3) The Manufacturer shall provide Network Rail Technology Introduction Group at least 12 (twelve) months notice of its intention to discontinue supply or to provide such notice as is reasonable if such discontinuance is outside its control and will offer the opportunity of a Last Time Buy to Network Rail together with date for last order placement and supply of the parts affected. The introduction of proposed alternative products shall be communicated to the Network Rail Technology Introduction Group.
4) Provide further copies of operating and maintenance manuals to purchasers / users of the product as necessary (including certificates of conformance, calibration etc).
5) Provide further copies of training manuals and an appropriate level of training to purchasers or users of the product as necessary.
6) Where applicable, specialist technical support, repairs and servicing of the product shall be carried out by the Original Equipment Manufacturer (OEM) or authorised agent only.

2) Conditions of Use

Specifiers, installers, operators, maintainers, etc. using the product shall:

1) Comply with the certificate conditions. If a condition is not understood guidance must be sought from Network Rail Technology Introduction Group.
2) Check that the application of use complies with the scope of acceptance.
3) Report any defect if it is a design or manufacturing fault likely to affect performance and/or the safe operation of the railway in writing to Network Rail Technology Introduction Group.
4) Inform Network Rail Technology Introduction Group in writing of a change to the product configuration (or to the actual product or its application).
5) Operate, maintain and service the product in accordance with Network Rail standards and Operation and Maintenance manuals as appropriate.
6) Be appropriately trained and authorised for the installation, maintenance and use of the product.
7) Only send products for repair or reconditioning to the Original Equipment Manufacturer (OEM) or authorised agent.

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3) Compliance

Railways and Other Guided Systems (ROGS) Regulations

1) Where the product is to be used in areas where Network Rail is not the Infrastructure Manager (e.g. leased stations), the sponsor shall additionally obtain formal consent from the Infrastructure Manager for the locality where the equipment is to be installed. This may include a requirement for additional safety verification. The decision of that Infrastructure Manager is binding, and cannot be overridden by Network Rail except by the escalation processes established in the ROGS regulations
2) As required in Railway Group Standard GE/RT8270, at each use of this product the project or group responsible for installation and commissioning shall be required to demonstrate compatibility with:
    a. All rail vehicle types that have access rights over the area affected by the change
    b. Infrastructure managed by others
    c. Neighbours.

Railway Interoperability Regulations

3) For interoperable constituents of systems the project or group responsible for installation and commissioning shall be required to demonstrate compliance with the relevant Technical Specifications for Interoperability (TSI) where appropriate.
4) An authorisation from the national safety authority (i.e. the Railway Safety Directorate of the Office of Rail Regulation) is required before the equipment is to be used in revenue earning service.

4) Supply Chain Arrangements

1) This certificate of acceptance does not imply any particular quantity of supply nor any exclusivity of supply.
2) The product may be purchased by Network Rail or its agents, suppliers or contractors.
3) Manufacturers should note that it is not necessary to enter into any exclusive supply arrangements with resellers or other suppliers.

5) Product Configuration

Part No.	Description	PADS No.
USL2/WW/P/E-/LG	LED universal semaphore lamp with 50mm diameter aperture for subsidiary and disc signals (standard intensity). For use with external 6V d.c. power supply e.g. semaphore battery box 086/009190. Supplied with short and tall base.	086/009198
USL2/WW/P/B-/LG	LED universal semaphore lamp with 50mm diameter aperture for subsidiary and disc signals (standard intensity). With internal batteries (054/128366). Supplied with short and tall base.	086/009197
USL2/WW/P/E-/HE	LED universal semaphore lamp (high intensity). For use with external 12V d.c. power supply. Supplied with short	086/009196

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Part No.	Description	PADS No.
	and tall base.	
USL2/WW/P/E-/LE	LED universal semaphore lamp (standard intensity). For use with external 6V d.c. power supply e.g. semaphore battery box 086/009190. Supplied with short and tall base.	086/009195
B13.12170	6 Volt 50 Ah Battery DAAB50	054/128366
D79.78027	Universal Semaphore Lamp Red Filter Fixing Kit	086/009199

6) Assessed Documentation

Reference	Title	Date and Applies to Cert. issue No.	
PA05/03335	Product Acceptance review checklist	09/02/09	1
NR TE EST0110	Safety Case submission	January 09	1
C64.65019	Universal Semaphore Red Filter Kit Fitting Instructions	-	2
D79.78027 Issue 1	Universal Semaphore Lamp Red Filter Fitting Kit	14/01/11	2

7) Certificate History

Issue Number	Date	Issue History
1	09/02/2009	First accepted for use.
2	13/01/2012	Second acceptance to extend the scope and add a red filter kit.

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8) DISTRIBUTION

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