

Certificate of Acceptance

OFFICIAL
PA05/01755

Manufacturer:
Unipart Dorman

Issue : 2
Valid From : 18-08-2023

Position Light Junction Indicator

Product Description

LED Position Light Junction Indicator (PLJI) comprising a pivot lamp and up to 6 arms with 4 lamps mounted in each one around it.

The Mark 2 PLJI has additional anti reflection measures, comprising re-orientation of the LED module with a new internal lens arrangement and the addition of a single louvre in the visor.

This certificate also introduces the Signal Sighting Device, which mounts the Unipart Dorman iLS Sighting Scope in the pivot aperture to facilitate correct Indicator alignment; and adds the range of OOU masks infill plates and reduced area backboards

Product Image



(Image shows Position 1&4 Indicator)



Scope of Acceptance

Full Acceptance

Accepted for use as an 800m readable Position Light Junction Indicator comprising up to 6 arms in accordance with GK/RT0057 Issue 1

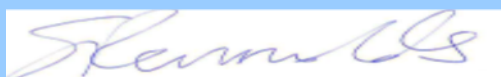
A suitable infill plate shall be installed between the top edge of the Colour Light Signal backboard and the bottom edge of the PLJI backboard to prevent sunlight bleeding through the gap between the two elements.

All new complete Indicators from 1 Nov 2023 will be to Mark 2 standard.

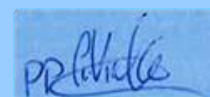
Network Rail Acceptance Panel (NRAP) hereby authorises the product above for use and trial use on railway infrastructure for which Network Rail is the Infrastructure Manager under the ROGS regulations.

Reviewed by:

Authorised by:



Steve Rennolds
Product Acceptance Specialist



Jerry Morling
Network Technical Head - Signalling

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Specific Conditions

The following Conditions are specific to the approved product/s contained within this Certificate. These conditions must be adhered to in addition to the Network Rail General Conditions contained within the "General Terms and Conditions" section. Failure to adhere to these conditions may result in the withdrawal or suspension of Acceptance of some, or all of the items contained within the accepted configuration.

Manufacturer

- 1) Ensure that the latest relevant standards/ drawings are available and worked to, and that the product is compliant.
- 2) Notify Network Rail Technology Introduction Group:
 - Within 48 hours, of any deficiencies affecting the product quality, functionality and safety integrity of the product (including corrective action undertaken or proposed).
 - Of any intended change to the accepted product. Changes include:
 - a) a change to the product configuration (to the actual product or its application);
 - b) a variation to or addition of manufacturing locations or processes; and
 - c) a change in the name or ownership of the manufacturing company.
- 3) Provide all documentation in the English (UK) language.
- 4) Provide operating and maintenance manuals to purchasers/users of the product.
- 5) Provide training manuals and an appropriate level of training to purchasers/users of the product.

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User

- 1) Users of the product are responsible for ensuring compliance with the certificate conditions. If a condition is not understood guidance must be sought from Network Rail Technology Introduction Group.
- 2) Users are responsible for ensuring that the product is fit for purpose and that the application of use complies with the scope of acceptance. Any product defect should be taken up immediately with the supplier. If the defect is a design or manufacturing fault likely to affect performance and/or the safe operation of the railway this shall be reported in writing to Network Rail Technology Introduction Group.
- 3) Anyone becoming aware of a change to the product configuration (to the actual product or its application) should inform Network Rail Technology Introduction Group in writing.
- 4) All staff required to use the equipment shall be suitably trained and, where appropriate, qualified as competent to use it.
- 5) Products shall be maintained in accordance with the manufacturer's recommendations.
- 6) Products shall be repaired / serviced by the manufacturer or its nominated agent only.
- 7) Where the product is to be used in areas where Network Rail is not the Duty Holder (e.g. Leased Stations), the sponsor shall obtain formal consent from the Duty Holder for the locality where the equipment is to be installed in compliance with Railway Group Standard GE/RT8270 to deploy that equipment on, or about, or as part of that party's on or about their infrastructure. The decision of that party is absolute, and cannot be overridden except through the escalation processes established in the ROGS regulations.
- 8) Mark 1 Signal Lamp Modules and/or complete arms shall not be fitted into Mark 2 signals and vice versa
- 9) Reduced area backboards are only to be specified on a case by case basis where requested and/or agreed by the Signal Sighting Chair

Product Configuration

Range (Mark 1 Only)

Part No.	Description	Catalogue No.
PLJI/1-----/PO	PLJI Position 1	0086/021001
PLJI/12----/PO	PLJI Position 1+2	0086/021002
PLJI/123---/PO	PLJI Position 1+2+3	0086/021008
PLJI/1234--/PO	PLJI Position 1+2+3+4	0086/021010
PLJI/12345-/PO	PLJI Position 1+2+3+4+5	0086/021012
PLJI/123456/PO	PLJI Position 1+2+3+4+5+6	0086/021014
PLJI/12-4--/PO	PLJI Position 1+2+4	0086/021006
PLJI/12-45-/PO	PLJI Position 1+2+4+5	0086/021015
PLJI/12-456/PO	PLJI Position 1+2+4+5+6	0086/021013
PLJI/1--4--/PO	PLJI Position 1+4	0086/021005
PLJI/1--45-/PO	PLJI Position 1+4+5	0086/021007
PLJI/12-45-/PO	PLJI Position 1+4+5+6	0086/021011
PLJI/---4--/PO	PLJI Position 4	0086/021003

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Part No.	Description	Catalogue No.
PLJI/---45-/PO	PLJI Position 4+5	0086/021004
PLJI/---456/PO	PLJI Position 4+5+6	0086/021009

Hardware (Maintenance Spares and Line Replaceable Units)

Part No.	Description	Catalogue No.
JIM2/WW/1/P/O	Lunar White Junction Indicator Module ***Mark 1 Only***	0086/020955
D85.84004	PLJI Spare Visor Kit ***Mark 1 Only***	0086/997004

Range (Mark 2 Only)

Part No.	Description	Catalogue No.
PLJI2/1-----/PG	PLJI Position 1	0086/021168
PLJI2/12----/PG	PLJI Position 1+2	0086/021169
PLJI2/123---/PG	PLJI Position 1+2+3	0086/021170
PLJI2/1234--/PG	PLJI Position 1+2+3+4	0086/021171
PLJI2/12345-/PG	PLJI Position 1+2+3+4+5	0086/021172
PLJI2/123456/PG	PLJI Position 1+2+3+4+5+6	0086/021173
PLJI2/12-4--/PG	PLJI Position 1+2+4	0086/021174
PLJI2/12-45-/PG	PLJI Position 1+2+4+5	0086/021175
PLJI2/12-456/PG	PLJI Position 1+2+4+5+6	0086/021176
PLJI2/1--4--/PG	PLJI Position 1+4	0086/021177
PLJI2/1--45-/PG	PLJI Position 1+4+5	0086/021178
PLJI2/12-45-/PG	PLJI Position 1+4+5+6	0086/021179
PLJI2/---4--/PG	PLJI Position 4	0086/021180
PLJI2/---45-/PG	PLJI Position 4+5	0086/021181
PLJI2/---456/PG	PLJI Position 4+5+6	0086/021182

Hardware (Maintenance Spares and Line Replaceable Units)

Part No.	Description	Catalogue No.
JIM2/WW/1/P/G	Lunar White Junction Indicator Module ***Mark 2 Only***	0086/021183
D85.84011	PLJI Spare Louvered Visor Kit ***Mark 2 Only***	0086/021184

Hardware (Sighting Scope, Reduced Width Backboards, Upper Backboard Extension Plates and Out of Use Masks Mk1 and Mk2)

Part No.	Description	Catalogue No.
D85.84010	PLJI Sighting Scope Adaptor Plate	0086/021185
D04.03082	Signal Sighting Scope	0086/008542
D04.84005	Reduced Area Backboard Kit (Position 1 Arm)	0086/021186
D04.84006	Reduced Area Backboard Kit (Position 4 Arm)	0086/021187
D04.84007	Reduced Area Backboard Kit (Position 1+4 Arms)	0086/021188
D04.84008	Reduced Area Backboard Kit (Position 1+2 Arms)	0086/021189

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Part No.	Description	Catalogue No.
D04.84009	Reduced Area Backboard (Position 4+5 Arms)	0086/021190
D86.85057	CLS Full Upper Backboard Extension Kit 25mm Joggle for use as an infill plate for POS 1 and/or Pos 4	0086/009004
D86.85058	CLS Upper Backboard Extension Kit 25mm Joggle for use as an infill plate with a POS 3 JRI	0086/009005
D86.85059	CLS Upper Backboard Extension Kit 25mm Joggle for use as an infill plate with a POS 6 JRI	0086/009006
D86.85060	CLS Upper Backboard Extension Kit 25mm Joggle for use as an infill plate with a POS 3 & 6 JRI	0086/009007
B22.21085	PLJI Out Of Use Mask Position 1	0086/021191
B22.21086	PLJI Out Of Use Mask Position 1&2	0086/021192
B22.21087	PLJI Out Of Use Mask Position 4	0086/021193
B22.21088	PLJI Out Of Use Mask Position 4&5	0086/021194
B22.21089	PLJI Out Of Use Mask Position 1&4	0086/021195
B22.21090	PLJI Out Of Use Mask Position 1&2&4	0086/021196
B22.21101	PLJI Out Of Use Mask Position 1&2&3	0086/021197
B22.21102	JI Out Of Use Mask Position 4&5&6	0086/021198

Assessed Documentation

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
AR TE EST 008	Product Safety Case Submission, including Addenda for	1	March 2002	1
OPT/01355	Report on readability tests on railway signals at Asfordby on 28/01/2002	1	05/02/2002	1
PLJIS/1-----/PO	General Arrangement drawing	1	16/01/2003	1
DOR 0000135	LTC Certificate of ingress protection	1	05/02/2003	1
Serial No 12612	Cape Engineering Certificate of Vibration Test	1	04/02/2003	
DOR0136	LTC Certificate of Vibration Test	1	13/02/2003	1
-	Typical Wiring Diagrams	1	09/03/2003	1
OC-1256-03	Report on Optical Testing of Unipart Dorman Mk1 PLJI and Mk2 PLJI Module (Louvered)	1	24/05/2023	2
PLJI2/1-----/PG	Example GA drawing for Mk2 Indicator	0	27/07/2023	2
D85.84010	Classic JI Sighting Scope Mounting Bracket	1	11/04/2023	2
B20.19456	Example GA of reduced area backboard	0	24/01/2017	2
B22.21101	Example GA of Out of Service Mask (1+2+3)	0	16/01/2018	2
D86.85057	CLS Full Upper Backboard Extension Kit 25mm Joggle	2	15/01/2021	2
D86.85058	CLS Upper Backboard Extension Kit 25mm Joggle for use as an infill plate with a POS 3 JRI	2	15/01/2021	2
D86.85059	CLS Upper Backboard Extension Kit 25mm Joggle for use as an infill plate with a POS 6 JRI	2	15/01/2021	2
D86.85060	CLS Upper Backboard Extension Kit 25mm Joggle for use as an infill plate with a POS 3 & 6 JRI	2	15/01/2021	2

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Manuals and Training Materials

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
C64.65523	PLJI O&M Manual	2	23/10/2018	2
C64.65631	Classic PLJI Sighting Scope Mount - User Instructions	1	09/01/2023	2

Certificate History

Issue	Date	Issue History
1	18/03/2003	First accepted for use (PA05/01411 - 07/05/2002)
2	18/08/2023	<p>Revised certificate combining PA05/01411 Issue 1 (PLJI Module) and PA05/01755 Issue 1 (PLJI Housings) into one certificate using the latest Network Rail format</p> <p>Addition of Signal Sighting Scope adaptor bracket and associated instruction leaflet</p> <p>List of Out of Use Masks, infill plates for use between the Colour Light Signal and the PLJI and reduced area backboards for all variants.</p> <p>Introduction of the Mark 2 PLJI, associated Junction Indicator Module with improved optics and Louvered Visor to enhance readability and mitigate sunlight reflections from unlit arms.</p>

Contact Details

Manufacturer

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General Terms & Conditions

1) General

- 1) This certificate can only be amended by Network Rail Product Acceptance, the Professional Head or nominated delegate. Any alterations made by a other persons will invalidate the entire certificate.
- 2) 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.
- 3) Upon the review date this certificate and the product it relates to is invalid and not accepted for use. Manufacturers are to make an application for a review prior to the review date via the NR sponsoring applicant.

2) Manufacturer

The Manufacturer shall:

- 1) Ensure that all products supplied 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 Network Rail Design for Reliability Standard(DFR) NR-L2-RSE-0005 and in any deed of warranty for the relevant certificate number.
- 2) Notify Network Rail Product Acceptance:
 - 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 Product Acceptance or National Supply Chain (NSC) 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 Network Rail Product Acceptance.
- 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.
- 7) Network Rail may request information from the manufacturer to prove product compliance with clauses 1 and 2 above and reserve the right to suspend and/or withdraw any application where information is not forthcoming within a reasonable timeframe.
- 8) In accordance with Network Rail's Quality Assurance Policy Statement, where the specification and/or Product Acceptance Certificates specify quality assurance classifications for the products, the manufacturer shall comply with the specified level of quality assurance for each product and allow Network Rail access to carry out its quality assurance checks.
- 9) The manufacturer shall give Network Rail's representatives access at all reasonable times to its premises and allow them to inspect its quality systems and production methods and, if requested, to inspect, examine and test the products both during and after their manufacture and the materials being used in their manufacture.

3) 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 Product Acceptance.
- 2) Check that the application of use complies with the relevant certificate's 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 Product Acceptance.
- 4) Inform Network Rail Product Acceptance 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.
- 8) Users are to be aware that Product Acceptance is not a substitute for design approval.

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4) 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 RIS-8270-RST, 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 and Road) is required before the equipment is to be used in revenue earning service.

5) Supply Chain Arrangements

1) Certificates of acceptance do not imply any particular quantity of supply nor any exclusivity of supply.

2) Products 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.