

Certificate of Acceptance

OFFICIAL

PA05/04240

Manufacturer:
Unipart Dorman

Issue : 12
Valid From : 25/05/2021

Lightweight Signals & Indicators

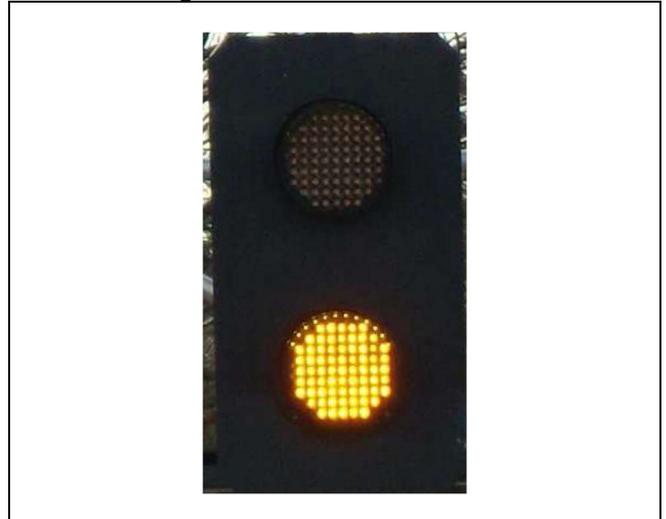
Product Description

Dorman Mk2 LED Colour Light Signals & Indicators.

A range of signal types are available:

- Long range narrow beam colour light signal modules with 800m readability and a nominal beam profile of +/-3 degrees (Long Range Narrow Angle);
- Medium range narrow beam colour light signal modules with 400m readability and a nominal beam profile of +/-3 degrees (Medium Range Narrow Angle);
- Medium range wide angle colour light signal with 400m readability and a nominal beam profile of +/-10 degrees (Medium Range Wide Angle).

Product Image



Scope of Acceptance

Full Acceptance:

The SSL modular variants are only for use on SSL 'Modular Signalling' Schemes. All other variants are accepted for national use.

- 800m readability Long Range Colour Light Signals
- 400m readability Medium Range Colour Light Signals
- 65m readability Miniature Alphanumeric Route Indicator
- 100m readability Subsidiary Signal
- 800m readability Position Light Junction Indicator (Positions 1, 2, 4 & 5 only)
- 250m readability Banner Repeater Signals
- 250m readability Preliminary Route Indicator
- 250m readability Standard Alphanumeric Route Indicator

The iLS aspect modules shall only be used in Unipart Dorman supplied housings and structures that conform to drawing iLS SIGNAL RANGE formally EX2291.

The signals may be operated from 110V ac or 120V dc (nominal) supplies.

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:




Steven Rennolds
Product Acceptance Specialist

Jerry Morling BEng MSc Ceng MIET, MIRSE
Professional 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) All complete signal head assemblies should be supplied with aspect modules to the latest modification state:
 - Current proved mod state A
 - Double volt-free contact proved mod state B
 - SSL modular single volt-free contact proved mod state N/A
 - SSL modular double volt-free contact proved mod state N/A
- 2) No aspect modules of lower modification state than listed above shall be supplied from issue date of this certificate.
- 3) All new top yellow modules shall be the modified versions (Mod C).

User

- 1) The volt-free contact proved Colour Light Signal modules (all types) and the current proved Colour Light Signal Modules to mod state N/A (i.e. prior to mod state A) have a high impedance input. Where excessive extraneous voltages are present (in the region of 40Vac) on the aspect lighting circuit(s) a false aspect illumination may occur. Users should check for extraneous voltages prior to commissioning (measurements should be taken with a DMM without a shunt and with any load fully disconnected). Legacy Single Cut circuits are particularly susceptible to extraneous voltages being present.
- 2) The current proved Colour Light Signal modules to mod state A and above have a modification to lower the effective input impedance and do not suffer from false illumination. No additional installation checks are required.
- 3) Signal Sighting Committees & Engineers should note the beam profile and readability of the colour light signals and should ensure the performance characteristics are appropriate for the application.
- 4) Lens cleaning of iLS signals with extended visors fitted should be scheduled at an interval determined by local policy where the signal is being maintained under ROSE. This is because the lens is no longer exposed to free-falling rain.
- 5) The user must ensure the application of the product and structure meets the requirements of NR/L2/CIV/003.
- 6) Previous generation top yellow modules (pre – Mod C) can continue to be used. It is recommended however that Mod C top yellow modules are used at sites where phantom aspect is an issue.
- 7) During maintenance replacement of modules, the same mod state or later shall be used.

Product Configuration

Complete CLS LITE Signal Heads

Part No.	Description	Catalogue No.
Lightweight 4 Aspect Colour Light Signal – Long Range Narrow Beam		
CLLH/RYG/AAE	Lightweight 4-Aspect, Long Range Narrow Beam Colour Light Signal head, Red Yellow Green Yellow, MIL 5015, T00036, 110Vac/120Vdc, Current proved, Upper quadrant	086/008720

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CLLH/RYG/ACE	Lightweight 4-Aspect, Long Range Narrow Beam Colour Light Signal head, Red Yellow Green Yellow, MIL 5015, T00036, 110Vac/120Vdc, Double cut volt free contact proved, Upper quadrant	086/008721
CLLF/RYG/AAG	Lightweight 4-Aspect, Long Range Narrow Beam Colour Light Signal head, Red Yellow Green Yellow, MIL 5015, T00036, 110Vac/120Vdc, Current proved, Bottom quadrant	086/008722
CLLT/RYG/AAG	Lightweight 4-Aspect, Long Range Narrow Beam Colour Light Tunnel Signal head, Red Yellow Green Yellow, MIL 5015, T00036, 110Vac/120Vdc, Current proved, Bottom quadrant	086/008723
CLLF/RYG/ACG	Lightweight 4-Aspect, Long Range Narrow Beam Colour Light Signal head, Red Yellow Green Yellow, MIL 5015, T00036, 110Vac/120Vdc, Double cut volt free contact proved, Bottom quadrant	086/008724
CLLT/RYG/ACG	Lightweight 4-Aspect, Long Range Narrow Beam Colour Light Tunnel Signal head, Red Yellow Green Yellow, MIL 5015, T00036, 110Vac/120Vdc, Double cut volt free contact proved, Bottom quadrant	086/008725
Lightweight 3 Aspect Colour Light Signal – Long Range Narrow Beam		
CLLH/3RYG/AAE	Lightweight 3-Aspect, Tall, Long Range Narrow Beam Colour Light Signal head, Red Yellow Green, MIL 5015, T00036, 110Vac/120Vdc, Current proved, Upper quadrant	086/008726
CLLH/3RYG/ACE	Lightweight 3-Aspect, Tall, Long Range Narrow Beam Colour Light Signal head, Red Yellow Green, MIL 5015, T00036, 110Vac/120Vdc, Double cut volt free contact proved, Upper quadrant	086/008727
CLLH/3RYG/AAG	Lightweight 3-Aspect, Short, Long Range Narrow Beam Colour Light Signal head, Red Yellow Green, MIL 5015, T00036, 110Vac/120Vdc, Current proved, Upper quadrant	086/008728
CLLH/3RYG/ACE	Lightweight 3-Aspect, Short, Long Range Narrow Beam Colour Light Signal head, Red Yellow Green, MIL 5015, T00036, 110Vac/120Vdc, Double cut volt free contact proved, Upper quadrant	086/008729
CLLF/3RYG/AAG	Lightweight 3-Aspect, Short, Long Range Narrow Beam Colour Light Signal head, Red Yellow Green, MIL 5015, T00036, 110Vac/120Vdc, Current proved, Bottom quadrant	086/008730
CLLF/3RYG/ACG	Lightweight 3-Aspect, Short, Long Range Narrow Beam Colour Light Signal head, Red Yellow Green, MIL 5015, T00036, 110Vac/120Vdc, Double cut volt free contact proved, Bottom quadrant	086/008731
CLLT/3RYG/AAG	Lightweight 3-Aspect, Short, Long Range Narrow Beam Colour Light Tunnel Signal head, Red Yellow Green Yellow, MIL 5015, T00036, 110Vac/120Vdc, Current proved, Bottom quadrant	086/008732
CLLT/3RYG/ACG	Lightweight 3-Aspect, Short, Long Range Narrow Beam Colour Light Tunnel Signal head, Red Yellow Green Yellow, MIL 5015, T00036, 110Vac/120Vdc, Double cut volt free contact proved, Bottom quadrant	086/008733
Lightweight 4 Aspect Colour Light Signal – Medium Range Narrow Beam		
CLNH/RYG/AAE	Lightweight 4-Aspect, Medium Range Narrow Beam Colour Light Signal head, Red Yellow Green Yellow, MIL 5015, T00036, 110Vac/120Vdc, Current proved, Upper quadrant	086/008710

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Part No.	Description	Catalogue No.
CLNH/RYG/ACE	Lightweight 4-Aspect, Medium Range Narrow Beam Colour Light Signal head, Red Yellow Green Yellow, MIL 5015, T00036, 110Vac/120Vdc, Double cut volt free contact proved, Upper quadrant	086/008711
CLNF/RYG/AAG	Lightweight 4-Aspect, Medium Range Narrow Beam Colour Light Signal head, Red Yellow Green Yellow, MIL 5015, T00036, 110Vac/120Vdc, Current proved, Bottom quadrant	086/008712
CLNF/RYG/ACG	Lightweight 4-Aspect, Medium Range Narrow Beam Colour Light Signal head, Red Yellow Green Yellow, MIL 5015, T00036, 110Vac/120Vdc, Double cut volt free contact proved, Bottom quadrant	086/008713
Lightweight 3 Aspect Colour Light Signal – Medium Range Narrow Beam		
CLNH/3RYG/AAE	Lightweight 3-Aspect, Tall, Medium Range Narrow Beam Colour Light Signal head, Red Yellow Green, MIL 5015, T00036, 110Vac/120Vdc, Current proved, Upper quadrant	086/008714
CLNH/3RYG/ACE	Lightweight 3-Aspect, Tall, Medium Range Narrow Beam Colour Light Signal head, Red Yellow Green, MIL 5015, T00036, 110Vac/120Vdc, Double cut volt free contact proved, Upper quadrant	086/008715
CLNH/3RYG/AAE	Lightweight 3-Aspect, Short, Medium Range Narrow Beam Colour Light Signal head, Red Yellow Green, MIL 5015, T00036, 110Vac/120Vdc, Current proved, Upper quadrant	086/008716
CLNH/3RYG/ACE	Lightweight 3-Aspect, Short, Medium Range Narrow Beam Colour Light Signal head, Red Yellow Green, MIL 5015, T00036, 110Vac/120Vdc, Double cut volt free contact proved, Upper quadrant	086/008717
CLNF/3RYG/AAG	Lightweight 3-Aspect, Short, Medium Range Narrow Beam Colour Light Signal head, Red Yellow Green, MIL 5015, T00036, 110Vac/120Vdc, Current proved, Bottom quadrant	086/008718
CLNF/3RYG/ACG	Lightweight 3-Aspect, Short, Medium Range Narrow Beam Colour Light Signal head, Red Yellow Green, MIL 5015, T00036, 110Vac/120Vdc, Double cut volt free contact proved, Bottom quadrant	086/008719
Lightweight 4 Aspect Colour Light Signal – Medium Range Wide Beam		
CLWH/RYG/AAE	Lightweight 4-Aspect, Medium Range Wide Beam Colour Light Signal head, Red Yellow Green Yellow, MIL 5015, T00036, 110Vac/120Vdc, Current proved, Upper quadrant	086/008700
CLWH/RYG/ACE	Lightweight 4-Aspect, Medium Range Wide Beam Colour Light Signal head, Red Yellow Green Yellow, MIL 5015, T00036, 110Vac/120Vdc, Double cut volt free contact proved, Upper quadrant	086/008701
CLWF/RYG/AAG	Lightweight 4-Aspect, Medium Range Wide Beam Colour Light Signal head, Red Yellow Green Yellow, MIL 5015, T00036, 110Vac/120Vdc, Current proved, Bottom quadrant	086/008702
CLWF/RYG/ACG	Lightweight 4-Aspect, Medium Range Wide Beam Colour Light Signal head, Red Yellow Green Yellow, MIL 5015, T00036, 110Vac/120Vdc, Double cut volt free contact proved, Bottom quadrant	086/008703
Lightweight 3 Aspect Colour Light Signal – Medium Range Wide Beam		
CLWH/3RYG/AAE	Lightweight 3-Aspect, Tall, Medium Range Wide Beam Colour Light Signal head, Red Yellow Green, MIL 5015, T00036, 110Vac/120Vdc, Current proved, Upper quadrant	086/008704

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CLWH/3RYG/ACE	Lightweight 3-Aspect, Tall, Medium Range Wide Beam Colour Light Signal head, Red Yellow Green, MIL 5015, T00036, 110Vac/120Vdc, Double cut volt free contact proved, Upper quadrant	086/008705
CLWH/SRYG/AAE	Lightweight 3-Aspect, Short, Medium Range Wide Beam Colour Light Signal head, Red Yellow Green, MIL 5015, T00036, 110Vac/120Vdc, Current proved, Upper quadrant	086/008706
CLWH/SRYG/ACE	Lightweight 3-Aspect, Short, Medium Range Wide Beam Colour Light Signal head, Red Yellow Green, MIL 5015, T00036, 110Vac/120Vdc, Double cut volt free contact proved, Upper quadrant	086/008707
CLWF/SRYG/AAG	Lightweight 3-Aspect, Short, Medium Range Wide Beam Colour Light Signal head, Red Yellow Green, MIL 5015, T00036, 110Vac/120Vdc, Current proved, Bottom quadrant	086/008708
CLWF/SRYG/ACG	Lightweight 3-Aspect, Short, Medium Range Wide Beam Colour Light Signal head, Red Yellow Green, MIL 5015, T00036, 110Vac/120Vdc, Double cut volt free contact proved, Bottom quadrant	086/008709

CLS LITE Spare Modules

Part No.	Description	Mod State	Catalogue No.
CLS LITE Colour Light Signal Modules, Current Proved to T00036			
LC/CMLRYG-E/AAS	CLS LITE Module, Colour Light Signal, 3 Aspect, Long Range Narrow Beam, Elevated, 110V, MIL 5015, T00036, Current Proved, Short Tail Cable	A	086/008503
LC/CMLRYG-G/AAS	CLS LITE Module, Colour Light Signal, 3 Aspect, Long Range Narrow Beam, Ground, 110V, MIL 5015, T00036, Current Proved, Short Tail Cable	A	086/008504
LC/CMNRYG-E/AAS	CLS LITE Module, Colour Light Signal, 3 Aspect, Medium Range Narrow Beam, Elevated, 110V, MIL 5015, T00036, Current Proved, Short Tail Cable	A	086/009370
LC/CMNRYG-G/AAS	CLS LITE Module, Colour Light Signal, 3 Aspect, Medium Range Narrow Beam, Ground, 110V, MIL 5015, T00036, Current Proved, Short Tail Cable	A	086/009371
LC/CMMRYG-E/AAS	CLS LITE Module, Colour Light Signal, 3 Aspect, Medium Range Wide Beam, Elevated, 110V, MIL 5015, T00036, Current Proved, Short Tail Cable	A	086/009478
LC/CMMRYG-G/AAS	CLS LITE Module, Colour Light Signal, 3 Aspect, Medium Range Wide Beam, Ground, 110V, MIL 5015, T00036, Current Proved, Short Tail Cable	A	086/009479
CLS LITE Colour Light Signal Modules, SSL Modular Scheme Terminations with Single Volt-free Contact			
LC/CMLRYG-E/CDS	iLS Module, Colour Light Signal, 3 Aspect, Long Range Narrow Beam, Elevated, 110V, MIL 5015, SSL Modular, Volt Free single cut, Short Tail Cable	N/A	086/008509
LC/CMLRYG-G/CDS	iLS Module, Colour Light Signal, 3 Aspect, Long Range Narrow Beam, Ground, 110V, MIL 5015, SSL Modular, Volt Free single cut, Short Tail Cable	N/A	086/008510

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LC/CMNRYG-E/CDS	iLS Module, Colour Light Signal, 3 Aspect, Medium Range Narrow Beam, Elevated, 110V, MIL 5015, SSL Modular, Volt Free single cut, Short Tail Cable	N/A	086/009372
LC/CMNRYG-G/CDS	iLS Module, Colour Light Signal, 3 Aspect, Medium Range Narrow Beam, Ground, 110V, MIL 5015, SSL Modular, Volt Free single cut, Short Tail Cable	N/A	086/009373
LC/CMMRYG-E/CDS	iLS Module, Colour Light Signal, 3 Aspect, Medium Range Wide Beam, Elevated, 110V, MIL 5015, SSL Modular, Volt Free single cut, Short Tail Cable	N/A	086/009480
LC/CMMRYG-G/CDS	iLS Module, Colour Light Signal, 3 Aspect, Medium Range Wide Beam, Ground, 110V, MIL 5015, SSL Modular, Volt Free single cut, Short Tail Cable	N/A	086/009481
CLS LITE Colour Light Signal Modules, Double Volt-free Contact Proving, Terminations to T00036			
LC/CMLRYG-E/ACS	CLS LITE Module, Colour Light Signal, 3 Aspect, Long Range Narrow Beam, Elevated, 110V, MIL 5015, T00036, Volt Free Double cut, Short Tail Cable	B	086/008513
LC/CMLRYG-G/ACS	CLS LITE Module, Colour Light Signal, 3 Aspect, Long Range Narrow Beam, Ground, 110V, MIL 5015, T00036, Volt Free Double cut, Short Tail Cable	B	086/008514
LC/CMNRYG-E/ACS	CLS LITE Module, Colour Light Signal, 3 Aspect, Medium Range Narrow Beam, Elevated, 110V, MIL 5015, T00036, Volt Free Double cut, Short Tail Cable	B	086/009374
LC/CMNRYG-G/ACS	CLS LITE Module, Colour Light Signal, 3 Aspect, Medium Range Narrow Beam, Ground, 110V, MIL 5015, T00036, Volt Free Double cut, Short Tail Cable	B	086/009375
LC/CMMRYG-E/ACS	CLS LITE Module, Colour Light Signal, 3 Aspect, Medium Range Wide Beam, Elevated, 110V, MIL 5015, T00036, Volt Free Double cut, Short Tail Cable	B	086/009482
LC/CMMRYG-G/ACS	CLS LITE Module, Colour Light Signal, 3 Aspect, Medium Range Wide Beam, Ground, 110V, MIL 5015, T00036, Volt Free Double cut, Short Tail Cable	B	086/009483
Upper Yellow modules (4th Aspect) for Current Proved Modules to T00036			
LC/CML4Y-E/AA-	CLS LITE Module, Colour Light Signal, 4 th Aspect, Long Range Narrow Beam, Elevated, 110V, MIL 5015, T00036, Current Proved.	C	086/008642
LC/CML4Y-G/AA-	CLS LITE Module, Colour Light Signal, 4 th Aspect, Long Range Narrow Beam, Ground, 110V, MIL 5015, T00036, Current Proved.	C	086/008643
LC/CMN4Y-E/AA-	CLS LITE Module, Colour Light Signal, 4 th Aspect, Medium Range Narrow Beam, Elevated, 110V, MIL 5015, T00036, Current Proved.	C	086/009376
LC/CMN4Y-G/AA-	CLS LITE Module, Colour Light Signal, 4 th Aspect, Medium Range Narrow Beam, Ground, 110V, MIL 5015, T00036, Current Proved.	C	086/009377
LC/CMM4Y-E/AA-	CLS LITE Module, Colour Light Signal, 4 th Aspect, Medium Range Wide Beam, Elevated, 110V, MIL 5015, T00036, Current Proved.	C	086/009484
LC/CMM4Y-G/AA-	CLS LITE Module, Colour Light Signal, 4 th Aspect, Medium Range Wide Beam, Ground, 110V, MIL 5015, T00036, Current Proved.	C	086/009485
Upper Yellow modules (4th Aspect) for Double Volt-free contact proved modules			

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LC/CML4Y-E/AE-	CLS LITE Module, Colour Light Signal, 4 th Aspect, Long Range Narrow Beam, Elevated, 110V, MIL 5015, T00036, No Proving (For use in conjunction with the volt-free contact proved CLS LITE Module).	C	086/008644
LC/CML4Y-G/AE-	CLS LITE Module, Colour Light Signal, 4 th Aspect, Long Range Narrow Beam, Ground, 110V, MIL 5015, T00036, No Proving (For use in conjunction with the volt-free contact proved CLS LITE Module).	C	086/008645
LC/CMN4Y-E/AE-	CLS LITE Module, Colour Light Signal, 4 th Aspect, Medium Range Narrow Beam, Elevated, 110V, MIL 5015, T00036, No Proving (For use in conjunction with the volt-free contact proved CLS LITE Module).	C	086/009378
LC/CMN4Y-G/AE-	CLS LITE Module, Colour Light Signal, 4 th Aspect, Medium Range Narrow Beam, Ground, 110V, MIL 5015, T00036, No Proving (For use in conjunction with the volt-free contact proved CLS LITE Module).	C	086/009379
LC/CMM4Y-E/AE-	CLS LITE Module, Colour Light Signal, 4 th Aspect, Medium Range Wide Beam, Elevated, 110V, MIL 5015, T00036, No Proving (For use in conjunction with the volt-free contact proved CLS LITE Module).	C	086/009486
LC/CMM4Y-G/AE-	CLS LITE Module, Colour Light Signal, 4 th Aspect, Medium Range Wide Beam, Ground, 110V, MIL 5015, T00036, No Proving (For use in conjunction with the volt-free contact proved CLS LITE Module).	C	086/009487

iLS Spare Modules

Part No.	Description	Mod State	Catalogue No.
iLS Colour Light Signal Modules, Current Proved to T00036			
LS/CMLRYG-E/AAL	iLS Module, Colour Light Signal, 3 Aspect, Long Range Narrow Beam, Elevated, 110V, MIL 5015, T00036, Current Proved, Long Tail Cable	A	086/008501
LS/CMLRYG-G/AAL	iLS Module, Colour Light Signal, 3 Aspect, Long Range Narrow Beam, Ground, 110V, MIL 5015, T00036, Current Proved, Long Tail Cable	A	086/008502
LS/CMNRYG-E/AAL	iLS Module, Colour Light Signal, 3 Aspect, Medium Range Narrow Beam, Elevated, 110V, MIL 5015, T00036, Current Proved, Long Tail Cable	A	086/009380
LS/CMNRYG-G/AAL	iLS Module, Colour Light Signal, 3 Aspect, Medium Range Narrow Beam, Ground, 110V, MIL 5015, T00036, Current Proved, Long Tail Cable	A	086/009381
LS/CMMRYG-E/AAL	iLS Module, Colour Light Signal, 3 Aspect, Medium Range Wide Beam, Elevated, 110V, MIL 5015, T00036, Current Proved, Long Tail Cable	A	086/009488
LS/CMMRYG-G/AAL	iLS Module, Colour Light Signal, 3 Aspect, Medium Range Wide Beam, Ground, 110V, MIL 5015, T00036, Current Proved, Long Tail Cable	A	086/009489
iLS Colour Light Signal Modules, SSL Modular Scheme Terminations with Single Volt-free Contact			

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LS/CMLRYG-E/CDL	iLS Module, Colour Light Signal, 3 Aspect, Long Range Narrow Beam, Elevated, 110V, MIL 5015, SSL Modular, Volt Free single cut, Long Tail Cable	N/A	086/008507
LS/CMLRYG-G/CDL	iLS Module, Colour Light Signal, 3 Aspect, Long Range Narrow Beam, Ground, 110V, MIL 5015, SSL Modular, Volt Free single cut, Long Tail Cable	N/A	086/008508
LS/CMNRYG-E/CDL	iLS Module, Colour Light Signal, 3 Aspect, Medium Range Narrow Beam, Elevated, 110V, MIL 5015, SSL Modular, Volt Free single cut, Long Tail Cable	N/A	086/009382
LS/CMNRYG-G/CDL	iLS Module, Colour Light Signal, 3 Aspect, Medium Range Narrow Beam, Ground, 110V, MIL 5015, SSL Modular, Volt Free single cut, Long Tail Cable	N/A	086/009383
LS/CMMRYG-E/CDL	iLS Module, Colour Light Signal, 3 Aspect, Medium Range Wide Beam, Elevated, 110V, MIL 5015, SSL Modular, Volt Free single cut, Long Tail Cable	N/A	086/009490
LS/CMMRYG-G/CDL	iLS Module, Colour Light Signal, 3 Aspect, Medium Range Wide Beam, Ground, 110V, MIL 5015, SSL Modular, Volt Free single cut, Long Tail Cable	N/A	086/009491
iLS Colour Light Signal Modules, SSL Modular Scheme Terminations with Double Volt-free Contact			
LS/CMLRYG-E/DCL	iLS Module, Colour Light Signal, 3 Aspect, Long Range Narrow Beam, Elevated, 110V, MIL5015, SSL Modular, Volt Free Double Cut, Long Tail Cable	N/A	086/007475
LS/CMLRYG-G/DCL	iLS Module, Colour Light Signal, 3 Aspect, Long Range Narrow Beam, Ground, 110V, MIL5015, SSL Modular, Volt Free Double Cut, Long Tail Cable	N/A	086/007476
LS/CMNRYG-E/DCL	iLS Module, Colour Light Signal, 3 Aspect, Medium Range Narrow Beam, Elevated, 110V, MIL5015, SSL Modular, Volt Free Double Cut, Long Tail Cable	N/A	086/007477
LS/CMNRYG-G/DCL	iLS Module, Colour Light Signal, 3 Aspect, Medium Range Narrow Beam, Ground, 110V, MIL5015, SSL Modular, Volt Free Double Cut, Long Tail Cable	N/A	086/007478
LS/CMMRYG-E/DCL	iLS Module, Colour Light Signal, 3 Aspect, Medium Range Wide Beam, Elevated, 110V, MIL5015, SSL Modular, Volt Free Double Cut, Long Tail Cable	N/A	086/007479
LS/CMMRYG-G/DCL	iLS Module, Colour Light Signal, 3 Aspect, Medium Range Wide Beam, Ground, 110V, MIL5015, SSL Modular, Volt Free Double Cut, Long Tail Cable	N/A	086/007480
iLS Colour Light Signal Modules, Double Volt-free Contact Proving, Terminations to T00036			
LS/CMLRYG-E/ACL	iLS Module, Colour Light Signal, 3 Aspect, Long Range Narrow Beam, Elevated, 110V, MIL 5015, T00036, Volt Free Double cut, Long Tail Cable	B	086/008511
LS/CMLRYG-G/ACL	iLS Module, Colour Light Signal, 3 Aspect, Long Range Narrow Beam, Ground, 110V, MIL 5015, T00036, Volt Free Double cut, Long Tail Cable	B	086/008512
LS/CMNRYG-E/ACL	iLS Module, Colour Light Signal, 3 Aspect, Medium Range Narrow Beam, Elevated, 110V, MIL 5015, T00036, Volt Free Double cut, Long Tail Cable	B	086/009384
LS/CMNRYG-G/ACL	iLS Module, Colour Light Signal, 3 Aspect, Medium Range Narrow Beam, Ground, 110V, MIL 5015, T00036, Volt Free Double cut, Long Tail Cable	B	086/009385

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LS/CMMRYG-E/ACL	iLS Module, Colour Light Signal, 3 Aspect, Medium Range Wide Beam, Elevated, 110V, MIL 5015, T00036, Volt Free Double cut, Long Tail Cable	B	086/009492
LS/CMMRYG-G/ACL	iLS Module, Colour Light Signal, 3 Aspect, Medium Range Wide Beam, Ground, 110V, MIL 5015, T00036, Volt Free Double cut, Long Tail Cable	B	086/009493
iLS Colour Light Signal Modules, Upper Yellow modules (4th Aspect) for Current Proved Modules to T00036			
LS/CML4Y-E/AA-	iLS Module, Colour Light Signal, 4 th Aspect, Long Range Narrow Beam, Elevated, 110V, MIL 5015, T00036, Current Proved.	C	086/008505
LS/CML4Y-G/AA-	iLS Module, Colour Light Signal, 4 th Aspect, Long Range Narrow Beam, Ground, 110V, MIL 5015, T00036, Current Proved.	C	086/008506
LS/CMN4Y-E/AA-	iLS Module, Colour Light Signal, 4 th Aspect, Medium Range Narrow Beam, Elevated, 110V, MIL 5015, T00036, Current Proved.	C	086/009386
LS/CMN4Y-G/AA-	iLS Module, Colour Light Signal, 4 th Aspect, Medium Range Narrow Beam, Ground, 110V, MIL 5015, T00036, Current Proved.	C	086/009387
S/CMM4Y-E/AA-	iLS Module, Colour Light Signal, 4 th Aspect, Medium Range Wide Beam, Elevated, 110V, MIL 5015, T00036, Current Proved.	C	086/009494
LS/CMM4Y-G/AA-	iLS Module, Colour Light Signal, 4 th Aspect, Medium Range Wide Beam, Ground, 110V, MIL 5015, T00036, Current Proved.	C	086/009495
iLS Colour Light Signal Modules, Upper Yellow modules (4th Aspect) for Double Volt-free contact proved modules			
LS/CML4Y-E/AE-	iLS Module, Colour Light Signal, 4 th Aspect, Long Range Narrow Beam, Elevated, 110V, MIL 5015, T00036, No proving (for use in conjunction with the volt-free contact proved CLS Module)	C	086/008515
LS/CML4Y-G/AE-	iLS Module, Colour Light Signal, 4 th Aspect, Long Range Narrow Beam, Ground, 110V, MIL 5015, T00036, No Proving (for use in conjunction with the volt-free contact proved CLS Module)	C	086/008516
LS/CMN4Y-E/AE-	iLS Module, Colour Light Signal, 4 th Aspect, Medium Range Narrow Beam, Elevated, 110V, MIL 5015, T00036, No proving (for use in conjunction with the volt-free contact proved CLS Module)	C	086/009388
LS/CMN4Y-G/AE-	iLS Module, Colour Light Signal, 4 th Aspect, Medium Range Narrow Beam, Ground, 110V, MIL 5015, T00036, No Proving (for use in conjunction with the volt-free contact proved CLS Module)	C	086/009389
LS/CMM4Y-E/AE-	iLS Module, Colour Light Signal, 4 th Aspect, Medium Range Wide Beam, Elevated, 110V, MIL 5015, T00036, No proving (for use in conjunction with the volt-free contact proved CLS Module)	C	086/008646

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Part No.	Description	Mod State	Catalogue No.
LS/CMM4Y-G/AE-	iLS Module, Colour Light Signal, 4 th Aspect, Medium Range Wide Beam, Ground, 110V, MIL 5015, T00036, No Proving (for use in conjunction with the volt-free contact proved CLS Module)	C	086/008647

Indicators & Accessories

Part No.	Description	PADS No.
Position Light Junction Indicator Modules, Current Proved, Terminations to T00036		
LS/JM1/AAS	iLS Module, Junction Indicator, Position 1, 110V, MIL5015, T00036, Current Proved	086/008517
LS/JM2/AAS	iLS Module, Junction Indicator, Position 2, 110V, MIL5015, T00036, Current Proved	086/008518
LS/JM4/AAS	iLS Module, Junction Indicator, Position 4, 110V, MIL5015, T00036, Current Proved	086/008519
LS/JM5/AAS	iLS Module, Junction Indicator, Position 5, 110V, MIL5015, T00036, Current Proved	086/008520
Position Light Junction Indicator Modules, Single Volt-free Contact Proved, SSL Modular Scheme Terminations		
LS/JM1/CDS	iLS Module, Junction Indicator, Position 1, 110V, MIL5015, SSL Modular, Volt free single cut	086/008521
LS/JM2/CDS	iLS Module, Junction Indicator, Position 2, 110V, MIL5015, SSL Modular, Volt free single cut	086/008522
LS/JM4/CDS	iLS Module, Junction Indicator, Position 4, 110V, MIL5015, SSL Modular, Volt free single cut	086/008523
LS/JM5/CDS	iLS Module, Junction Indicator, Position 5, 110V, MIL5015, SSL Modular, Volt free single cut	086/008524
Subsidiary Signal Modules, Current Proved, Terminations to T00036		
LS/SSM/WW/AAL	iLS Module, Subsidiary Signal, White/White, 110V, MIL5015, T00036, Current Proved, Long Tail Cable	086/008525
LS/SSM/WW/AAS	iLS Module, Subsidiary Signal, White/White, 110V, MIL5015, T00036, Current Proved, Short Tail Cable	086/008526
Subsidiary Signal Modules, Single Volt-free Contact Proved, SSL Modular Scheme Terminations		
LS/SSM/WW/CDS	iLS Module, Subsidiary Signal, White/White, 110V, MIL5015, SSL Modular, Volt Free Single Cut, Short Tail Cable	086/008527
Miniature Alphanumeric Route Indicator, Current Proved, Terminations to T00036		
LSS/-----/AAL	iLS Module, Miniature Alphanumeric Route Indicator, Indication to be Specified by the Customer, 110V, MIL5015, T00036, Current Proving, Long Tail Cable	086/008528
LSS/-----/AAS	iLS Module, Miniature Alphanumeric Route Indicator, Indication to be Specified by the Customer, 110V, MIL5015, T00036, Current Proving, Short Tail Cable	086/008529
Miniature Alphanumeric Route Indicator, Single Volt-free Contact Proved, SSL Modular Scheme Terminations		

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Part No.	Description	PADS No.
LSS/-----/CDS	iLS Module, Miniature Alphanumeric Route Indicator, Indication to be Specified by the Customer, 110V, MIL5015, SSL Modular, Volt Free Single Cut, Short Tail Cable	086/008530
Standard Alphanumeric Route Indicator, Current Proved, Terminations to T00036		
LST/-----/AAL	iLS Module, Standard Alphanumeric Route Indicator, Indication to be Specified by the Customer, 110V, MIL5015, T00036, Current Proving, Long Tail Cable	086/007455
Preliminary Route Indicator, Current Proved, Terminations to T00036		
LSP/01/AAL	iLS Preliminary Route Indicator (0+1) module, Current proved, MIL5015, T00036, Long tail cable	086/007459
LSP/012/AAL	iLS Preliminary Route Indicator (0+1 +2) module, Current proved, MIL5015, T00036, Long tail cable	086/007460
LSP/04/AAL	iLS Preliminary Route Indicator (0+4) module, Current proved, MIL5015, T00036, Long tail cable	086/007461
LSP/045/AAL	iLS Preliminary Route Indicator (0+4+5) module, Current proved, MIL5015, T00036, Long tail cable	086/007462
LSP/014/AAL	iLS Preliminary Route Indicator (0+1+4) module, Current proved, MIL5015, T00036, Long tail cable	086/007463
LSP/0124/AAL	iLS Preliminary Route Indicator (0+1+2+4) module, Current proved, MIL5015, T00036, Long tail cable	086/007464
LSP/0145/AAL	iLS Preliminary Route Indicator (0+1+4+5) module, Current proved, MIL5015, T00036, Long tail cable	086/007465
LSP/0123/AAL	iLS Preliminary Route Indicator (0+1+2+3) module, Current proved, MIL5015, T00036, Long tail cable	086/007466
LSP/0456/AAL	iLS Preliminary Route Indicator (0+4+5+6) module, Current proved, MIL5015, T00036, Long tail cable	086/007467
LSP/01234/AAL	iLS Preliminary Route Indicator (0+1+2+3+4) module, Current proved, MIL5015, T00036, Long tail cable	086/007468
LSP/01456/AAL	iLS Preliminary Route Indicator (0+1+4+5+6) module, Current proved, MIL5015, T00036, Long tail cable	086/007469
LSP/012345/AAL	iLS Preliminary Route Indicator (0+1+3+4+5) module, Current proved, MIL5015, T00036, Long tail cable	086/007470
LSP/012456/AAL	iLS Preliminary Route Indicator (0+1+2+4+5+6) module, Current proved, MIL5015, T00036, Long tail cable	086/007471
LSP/0123456/AAL	iLS Preliminary Route Indicator (0+1+2+3+4+5+6) module, Current proved, MIL5015, T00036, Long tail cable	086/007472
LSP/01245/AAL	iLS Preliminary Route Indicator (0+1+2+4+5) module, Current proved, MIL5015, T00036, Long tail cable	086/007473
Banner Repeater Signal, Current Proved, Terminations to T00036		
LSB/300P/AAL	iLS Banner module, 2 state 300mA, 110V, Current proved, MIL5015, T00036, Long tail cable	086/007456
LSB/500P/AAL	iLS Banner module, 2 state 500mA, 110V, Current proved, MIL5015, T00036, Long tail cable	086/007457
LSB/GRN/AAL	iLS Banner module, 3 state Green 300mA, 110V, Current proved, MIL5015, T00036, Long tail cable	086/007458
Signal Bases		
TRUN001	iLS Trunnion, 1 connection enclosure for 2 Signal Elements. For left-hand mounting.	086/008534
TRUN002	iLS Trunnion, 2 connection enclosures for 4 Signal Elements	086/008535

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Part No.	Description	PADS No.
TRUN003	iLS Short Trunnion, 1 connection enclosure for 2 Signal Elements	086/008536
TRUN005	iLS Trunnion, 1 connection enclosure for 2 Signal Elements. For right-hand mounting.	086/003990
SSL Modular Signalling Enclosure Cabinets		
ENC/SSL/1	iLS Enclosure Type 1 Distant SSL	086/008537
ENC/SSL/2	iLS Enclosure Type 2 Stop SSL	086/008538
ENC/SSL/3	iLS Enclosure Type 3 Stop EF1 SSL	086/008539
ENC/SSL/4	iLS Enclosure Type 4 Stop EF2 SSL	086/008540
ENC/SSL/5	iLS Enclosure Type 5 Distant II SSL	086/008541
ENC/000	iLS Enclosure, empty for user fit out	086/009477
ENC/SSL/11	iLS Enclosure Type 11 Distant Signal SSL	086/007481
ENC/SSL/12	iLS Enclosure Type 12 Stop Signal SSL	086/007482
ENC/SSL/13	iLS Enclosure Type 13 Stop Signal SSL	086/007483
ENC/SSL/16	iLS Enclosure Type 16 Inter Island Stop Signal SSL	086/007484
Accessories		
D04.03082	ILS Sighting Scope Assembly inc case	086/008542
D04.03082RECERT	ILS Sighting Scope Assembly (Recertification)	R086/008542
D04.03988	ILS Sighting Scope Camera Bracket Kit	086/008865
D04.03143	Junction Indicator Long Harness, Position 1, T00036, Current Proved	086/008543
D04.03142	Junction Indicator Short Harness, Position 1, T00036, Current Proved	086/008544
D04.03145	Junction Indicator Long Harness, Position 4, T00036, Current Proved	086/008545
D04.03144	Junction Indicator Short Harness, Position 4, T00036, Current Proved	086/008546
D04.03147	Junction Indicator Long Harness, Position 1+4, T00036, Current Proved	086/008547
D04.03146	Junction Indicator Short Harness, Position 1+4, T00036, Current Proved	086/008548
D04.03149	Junction Indicator Long Harness, Position 1+2, T00036, Current Proved	086/008549
D04.03148	Junction Indicator Short Harness, Position 1+2, T00036, Current Proved	086/008550
D04.03151	Junction Indicator Long Harness, Position 4+5, T00036, Current Proved	086/008551
D04.03150	Junction Indicator Short Harness, Position 4+5, T00036, Current Proved	086/008552
D04.03153	Junction Indicator Long Harness, Position 1+2+4, T00036, Current Proved	086/008553
D04.03152	Junction Indicator Short Harness, Position 1+2+4, T00036, Current Proved	086/008554
D04.03155	Junction Indicator Long Harness, Position 1+4+5, T00036, Current Proved	086/008555
D04.03154	Junction Indicator Short Harness, Position 1+4+5, T00036, Current Proved	086/008556
D04.03157	Junction Indicator Long Harness, Position 1+2+4+5, T00036, Current Proved	086/008557

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Part No.	Description	PADS No.
D04.03156	Junction Indicator Short Harness, Position 1+2+4+5, T00036, Current Proved	086/008558
D04.03088	13 way to 25 way SSL Modular enclosure interface harness	086/008559
D04.03089	Harness EN8086	086/008560
D04.03090	Harness EN8061	086/008561
D04.03672	13 way to 13 way extension cable, 400mm length (size 32 shell)	086/007487
D04.03996	CLS LITE 3 Aspect Visor Kit 550mm (135 Degree RH Obscuration)	086/008851
D04.03997	CLS LITE 3 Aspect Visor Kit 550mm (135 Degree LH Obscuration)	086/008852
D04.03998	CLS LITE 4 Aspect Visor Kit 600mm Kit Contains New Backboard	086/008853
D04.03999	CLS LITE 3 Aspect Visor Kit 600mm	086/008854
D04.04000	CLS LITE 4 Aspect Visor Kit 600mm (3/4 Round RH Side) Kit Contains New Backboard	086/008855
D04.04001	CLS LITE 4 Aspect Visor Kit 600mm (3/4 Round LH Side)	086/008856
D04.04002	CLS LITE 3 Aspect Visor Kit 600mm (3/4 Round RH Side)	086/008857
D04.04003	CLS LITE 3 Aspect Visor Kit 600mm (3/4 Round LH Side)	086/008858
B22.21000	iLS Out Of Use Mask – 3 Aspect Colour Light Signal	086/008562
B22.21001	iLS Out Of Use Mask – 4 Aspect Colour Light Signal	086/008563
B22.21002	iLS Out Of Use Mask – 3 Aspect Colour Light Signal & Junction Indicator Position 1	086/008564
B22.21003	iLS Out Of Use Mask – 3 Aspect Colour Light Signal & Junction Indicator Position 4	086/008565
B22.21004	iLS Out Of Use Mask – 4 Aspect Colour Light Signal & Junction Indicator Position 1	086/008566
B22.21005	iLS Out Of Use Mask – 4 Aspect Colour Light Signal & Junction Indicator Position 4	086/008567
B22.21006	iLS Out Of Use Mask – 3 Aspect Colour Light Signal & Junction Indicator Position 1+4	086/008568
B22.21007	iLS Out Of Use Mask – 4 Aspect Colour Light Signal & Junction Indicator Position 1+4	086/008569
B22.21008	iLS Out Of Use Mask – 4 Aspect Colour Light Signal & Subsidiary Signal	086/008570
B22.21009	iLS Out Of Use Mask – 3 Aspect Colour Light Signal & Junction Indicator Position 1 & Subsidiary Signal	086/008571
B22.21010	iLS Out Of Use Mask – 3 Aspect Colour Light Signal & Junction Indicator Position 4 & Subsidiary Signal	086/008572
B22.21011	iLS Out Of Use Mask – 3 Aspect Colour Light Signal & Junction Indicator Position 1+4 & Subsidiary Signal	086/008573
B22.21012	iLS Out Of Use Mask – 4 Aspect Colour Light Signal & Junction Indicator Position 1 & Subsidiary Signal	086/008574
B22.21013	iLS Out Of Use Mask – 4 Aspect Colour Light Signal & Junction Indicator Position 4 & Subsidiary Signal	086/008575

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Part No.	Description	PADS No.
B22.21014	iLS Out Of Use Mask – 4 Aspect Colour Light Signal & Junction Indicator Position 1+4 & Subsidiary Signal	086/008576
B22.21015	iLS Out Of Use Mask – 3 Aspect Colour Light Signal & Junction Indicator Position 1 & Subsidiary Signal & Stencil/Theatre	086/008577
B22.21016	iLS Out Of Use Mask – 4 Aspect Colour Light Signal & Junction Indicator Position 1 & Subsidiary Signal & Stencil/Theatre	086/008578
B22.21018	iLS Out of Service Mask 3 Aspect CLS JI Pos 1+2	086/008579
B22.21019	iLS Out of Service Mask 3 Aspect CLS JI Pos 4+5	086/008580
B22.21020	iLS Out of Service Mask 3 Aspect CLS JI Pos 1+2+4+5	086/008581
B22.21021	iLS Out of Service Mask 3 Aspect CLS JI Pos 1+2+4	086/008582
B22.21022	iLS Out of Service Mask 3 Aspect CLS JI Pos 1+4+5	086/008583
B22.21023	iLS Out of Service Mask 3 Aspect CLS + Subsidiary Signal	086/008584
B22.21024	iLS Out of Service Mask 3 Aspect CLS JI Pos 1+2+Sub+Signal	086/008585
B22.21025	iLS Out of Service Mask 3 Aspect CLS 4+5 Sub Signal	086/008586
B22.21026	iLS Out of Service Mask 3 Aspect CLS 1 2 4 5+Sub Signal	086/008587
B22.21027	iLS Out of Service Mask 3 Aspect CLS 1 2 4 +Sub Signal	086/008588
B22.21028	iLS Out of Service Mask 3 Aspect CLS 1 4 5 Sub Signal	086/008589
B22.21029	iLS Out of Service Mask 3 Aspect CLS + Stencil	086/008590
B22.21030	iLS Out of Service Mask 3 Aspect CLS JI Pos 1 + Stencil	086/008591
B22.21031	iLS Out of Service Mask 3 Aspect CLS JI Pos 4 + Stencil	086/008592
B22.21032	iLS Out of Service Mask 3 Aspect CLS JI Pos 1+4 + Stencil	086/008593
B22.21033	iLS Out of Service Mask 3 Aspect CLS JI Pos 1+2 + Stencil	086/008594
B22.21034	iLS Out of Service Mask 3 Aspect CLS JI Pos 4+5 Stencil	086/008595
B22.21035	iLS Out of Service Mask 3 Aspect CLS JI 1 2 4 5+ Stencil	086/008596
B22.21036	iLS Out of Service Mask 3 Aspect CLS JI Pos 1 2 4 + Stencil	086/008597
B22.21037	iLS Out of Service Mask 3 Aspect CLS JI Pos 1 4 5 + Stencil	086/008598
B22.21038	iLS Out of Service Mask 3 Aspect CLS + Sub + Stencil	086/008599
B22.21039	iLS Out of Service Mask 3 Aspect CLS + JI Pos 4 + Sub + MI	086/008600
B22.21040	iLS Out of Service Mask 3 Aspect CLS JI Pos 1 4 + Sub +MI	086/008601
B22.21041	iLS Out of Service Mask 3 Aspect CLS JI Pos 1 2 + Sub + MI	086/008602
B22.21042	iLS Out of Service Mask 3 Aspect CLS + JI 4 5 + Sub + MI	086/008603
B22.21043	iLS Out of Service Mask 3 Aspect CLS JI Pos 12 45 + Sub + MI	086/008604
B22.21044	iLS Out of Service Mask 3 Aspect CLS JI Pos 1 2 4 + Stencil + Sub	086/008605
B22.21045	iLS Out of Service Mask 3 Aspect CLS JI Pos 1 4 5 + Sub +Stencil	086/008606
B22.21046	iLS Out of Service Mask 3 Aspect CLS + Theatre	086/008607
B22.21047	iLS Out of Service Mask 3 Aspect CLS + Sub + Theatre	086/008608
B22.21048	iLS Out of Service Mask 3 Aspect CLS + Stencil + Theatre	086/008609
B22.21049	iLS Out of Service Mask 3 Aspect CLS Sub MI + SI	086/008610
B22.21050	iLS Out of Service Mask 4 Aspect CLS JI Pos 1+2	086/008611
B22.21051	iLS Out of Service Mask 4 Aspect CLS JI Pos 4+5	086/008612

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Part No.	Description	PADS No.
B22.21052	iLS Out of Service Mask 4 Aspect CLS JI Pos 1+2+4+5	086/008613
B22.21053	iLS Out of Service Mask 4 Aspect CLS JI Pos 1 2 4	086/008614
B22.21054	iLS Out of Service Mask 4 Aspect CLS JI 1 +4+5	086/008615
B22.21055	iLS Out of Service Mask 4 Aspect CLS JI Pos 1 +2 + Sub	086/008616
B22.21056	iLS Out of Service Mask 4 Aspect CLS JI Pos 4 5 + Sub	086/008617
B22.21057	iLS Out of Service Mask 4 Aspect CLS JI 1 2 4 + 5 Sub	086/008618
B22.21058	iLS Out of Service Mask 4 Aspect CLS JI 1 2 4 Sub	086/008619
B22.21059	iLS Out of Service Mask 4 Aspect CLS JI 1 4 5 Sub	086/008620
B22.21060	iLS Out of Service Mask 4 Aspect CLS + MI	086/008621
B22.21061	iLS Out of Service Mask 4 Aspect JI Pos 1 + MI	086/008622
B22.21062	iLS Out of Service Mask 4 Aspect JI Pos 4 + MI	086/008623
B22.21063	iLS Out of Service Mask 4 Aspect JI Pos 1+4 + MI	086/008624
B22.21064	iLS Out of Service Mask 4 Aspect JI Pos 1+2 + MI	086/008625
B22.21065	iLS Out of Service Mask 4 Aspect JI Pos 4+5 + MI	086/008626
B22.21066	iLS Out of Service Mask 4 Aspect CLS JI Pos 1 2 45 +MI	086/008627
B22.21067	iLS Out of Service Mask 4 Aspect CLS JI 1 2 4 + MI	086/008628
B22.21068	iLS Out of Service Mask 4 Aspect CLS JI 1 4 5 + MI	086/008629
B22.21069	iLS Out of Service Mask 4 Aspect CLS + Sub + MI	086/008630
B22.21070	iLS Out of Service Mask 4 Aspect CLS JI Pos 1 Sub + MI	086/008631
B22.21071	iLS Out of Service Mask 4 Aspect CLS JI Pos 4 Sub + MI	086/008632
B22.21072	iLS Out of Service Mask 4 Aspect CLS JI Pos 1 2 Sub + MI	086/008633
B22.21073	iLS Out of Service Mask 4 Aspect CLS JI Pos 45 +MI + Sub	086/008634
B22.21074	iLS Out of Service Mask 4 Aspect CLS JI Pos 1 2 4 5 + MI + Sub	086/008635
B22.21075	iLS Out of Service Mask 4 Aspect CLS JI Pos 1 2 4 Sub + MI	086/008636
B22.21076	iLS Out of Service Mask 4 Aspect CLS JI Pos 1 4 5 Sub + MI	086/008637
B22.21077	iLS Out of Service Mask 4 Aspect CLS + SI	086/008638
B22.21078	iLS Out of Service Mask 4 Aspect CLS + Sub + SI	086/008639
B22.21079	iLS Out of Service Mask 4 Aspect CLS + MI +SI	086/008640
B22.21080	iLS Out of Service Mask 4 Aspect MI + SI + Sub	086/008641
B22.21082	Tall CLS LITE Signal Out of Service Mask	086/009496
B22.21083	Short CLS LITE Signal Out of Service Mask	086/009497
B20.19380	iLS Colour Light Signal Module Blanking Plate	086/009391
D04.03508	Dorman CLS LITE One Aperture Housing for 3 Aspect Tunnel Colour Light Signal (Short)	086/009392
D04.03499	Dorman CLS LITE One Aperture Housing for 3 Aspect Colour Light Signal (Short)	086/009393
D04.03501	Dorman CLS LITE One Aperture Housing for 3 Aspect Colour Light Signal (Tall)	086/009394
D04.03500	Dorman CLS LITE Two Aperture Housing for 4 Aspect Colour Light Signal	086/009395
D04.03504	Dorman CLS LITE Two Aperture Housing for 4 Aspect Tunnel Colour Light Signal	086/009396
D04.03505	Cable Clamp Assembly	086/009498
B20.20234	Standard Visor (CLS LITE)	086/009501
B20.19436	Extended iLS CLS Visor 600mm Long	086/007488

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Part No.	Description	PADS No.
B20.19434	Extended 3/4 iLS CLS Visor 600mm Long (Right Hand)	086/007486
B20.19433	Extended 3/4 iLS CLS Visor 600mm Long (Left Hand)	086/007485
B20.19541	CLS LITE VISOR 600mm LONG	086/008859
B20.19542	CLS LITE VISOR 600mm LONG 3/4 RH	086/008860
B20.19543	CLS LITE VISOR 600mm LONG 3/4 LH	086/008861
C60.59128	Modified Backboard needed to convert 4 Aspect Signals to accept long or obscuration hoods	086/008862
B20.19412	CLS LITE Visor 135 Degree LH Obscuration	086/008863
B20.19474	CLS LITE Visor 135 Degree RH Obscuration	086/008864
B20.20238	CLS LITE 4 Aspect Backboard	086/009502
B20.19363	CLS LITE Tall 3 Aspect Backboard	086/009503
B20.20232	CLS LITE Short 3 Aspect Backboard	086/009504
B20.19368	CLS LITE 4 Aspect Tunnel Backboard	086/009505
B20.19373	CLS LITE 3 Aspect Tunnel Backboard	086/009506
B20.20233	CLS LITE Backboard Extension	086/009507
B20.19370	Cable Coupler Support Bracket Angle	086/009508
B20.19369	Cable Coupler Support Bracket (Heatsink Mounted)	086/009509
B20.19371	Cable Coupler Support Bracket (No Heatsink)	086/009510
B14.13184	MIL 5015 Receptacle Protective Cap Size 20	086/009511
B14.13194	MIL 5015 Receptacle Protective Cap Size 32	086/009512
Item 33 of D04.03499	Sighting Scope Mounting Bracket	086/009513
D04.03540	iLS JI Position 1 Visor Array, Mk 1	086/009514
D04.03541	iLS JI Position 4 Visor Array, Mk 1	086/009515
D04.03542	iLS JI Position 1 Visor Array, Mk 2	086/009516
D04.03543	iLS JI Position 2 Visor Array, Mk 2	086/009517
D04.03544	iLS JI Position 4 Visor Array, Mk 2	086/009518
D04.03545	iLS JI Position 5 Visor Array, Mk 2	086/009519
D04.03546	iLS Subsidiary Signal Visor Array	086/009531
D04.03554	iLS JI Pos 1 or 4 Tapered Insert (1.5°), Mk1	086/009532
D04.03555	iLS JI Pos 1 or 4 Tapered Insert (1.5°), Mk 2	086/009533
D04.03556	iLS JI Pos 2 or 5 Tapered Insert (1.5°), Mk 2	086/009534
D04.03557	iLS Subsidiary Signal Tapered Insert (1.5°)	086/009535

Complete Integrated Lightweight Signals (iLS) to Dorman drawing iLS SIGNAL RANGE (formally EX2291)

Part No.	Description	PADS No.
Type 1	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009397

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Part No.	Description	PADS No.
Type 2	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Position 1 Junction Indicator. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009398
Type 3	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Position 4 Junction Indicator. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009399
Type 4	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Position 1+4 Junction Indicator. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009400
Type 5	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Position 1+2 Junction Indicator. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009401
Type 6	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Position 4+5 Junction Indicator. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009402
Type 7	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Position 1+2+4+5 Junction Indicator. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009403
Type 8	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Position 1+2+4 Junction Indicator. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009404
Type 9	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Position 1+4+5 Junction Indicator. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009405
Type 10	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Position Light Signal. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009406
Type 11	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Position 1 Junction Indicator and Position Light Signal. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009407

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Part No.	Description	PADS No.
Type 12	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Position 4 Junction Indicator and Position Light Signal. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009408
Type 13	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Position 1+4 Junction Indicator and Position Light Signal. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009409
Type 14	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Position 1+2 Junction Indicator and Position Light Signal. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009410
Type 15	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Position 4+5 Junction Indicator and Position Light Signal. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009411
Type 16	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Position 1+2+4+5 Junction Indicator and Position Light Signal. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009412
Type 17	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Position 1+2+4 Junction Indicator and Position Light Signal. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009413
Type 18	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Position 1+4+5 Junction Indicator and Position Light Signal. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009414
Type 19	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009415
Type 20	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Position 1 Junction Indicator and Miniature	086/009416

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Part No.	Description	PADS No.
	Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	
Type 21	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Position 4 Junction Indicator and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009417
Type 22	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Position 1+4 Junction Indicator and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009418
Type 23	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Position 1+2 Junction Indicator and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009419
Type 24	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Position 4+5 Junction Indicator and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009420
Type 25	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Position 1+2+4+5 Junction Indicator and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009421
Type 26	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Position 1+2+4 Junction Indicator and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009422
Type 27	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Position 1+4+5 Junction Indicator and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009423

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Part No.	Description	PADS No.
Type 28	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Position Light Signal and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009424
Type 29	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Position 1 Junction Indicator and Position Light Signal and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009425
Type 30	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Position 4 Junction Indicator and Position Light Signal and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009426
Type 31	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Position 1+4 Junction Indicator and Position Light Signal and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009427
Type 32	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Position 1+2 Junction Indicator and Position Light Signal and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009428
Type 33	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Position 4+5 Junction Indicator and Position Light Signal and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009429
Type 34	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Position 1+2+4+5 Junction Indicator and Position Light Signal and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009430

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Part No.	Description	PADS No.
Type 35	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Position 1+2+4 Junction Indicator and Position Light Signal and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009431
Type 36	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Position 1+4+5 Junction Indicator and Position Light Signal and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009432
Type 37	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Standard Alphanumeric Route Indicator (Theatre). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009433
Type 38	Dorman Integrated Lightweight Signal (iLS) 3 aspect Colour Light Signal with Standard Alphanumeric Route Indicator (Theatre) and Position Light Signal. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009434
Type 39	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Standard Alphanumeric Route Indicator (Theatre) and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009435
Type 40	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Standard Alphanumeric Route Indicator (Theatre) and Position Light Signal and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009436
Type 41	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with 2 x Miniature Alphanumeric Route Indicators (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect.	0086/008682
Type 42	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Position Light Signal and 2 x Miniature Alphanumeric Route Indicators (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect.	0086/008683

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Part No.	Description	PADS No.
Type 43	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Standard Alphanumeric Route Indicator (Theatre) and 2 x Miniature Alphanumeric Route Indicators (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect.	0086/008684
Type 44	Dorman Integrated Lightweight Signal (iLS). 3 aspect Colour Light Signal with Standard Alphanumeric Route Indicator (Theatre) and Position Light Signal and 2 x Miniature Alphanumeric Route Indicators (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect.	0086/008684
Type 50	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009437
Type 51	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Position 1 Junction Indicator. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009438
Type 52	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Position 4 Junction Indicator. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009439
Type 53	Dorman Integrated Lightweight Signal (iLS) 4 aspect Colour Light Signal with Position 1+4 Junction Indicator. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009440
Type 54	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Position 1+2 Junction Indicator. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009441
Type 55	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Position 4+5 Junction Indicator. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009442
Type 56	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Position 1+2+4+5 Junction Indicator. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009443
Type 57	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Position 1+2+4 Junction Indicator. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009444

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Part No.	Description	PADS No.
Type 58	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Position 1+4+5 Junction Indicator. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009445
Type 59	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Position Light Signal. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009446
Type 60	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Position 1 Junction Indicator and Position Light Signal. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009447
Type 61	Dorman Integrated Lightweight Signal (iLS) 4 aspect Colour Light Signal with Position 4 Junction Indicator and Position Light Signal. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009448
Type 62	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Position 1+4 Junction Indicator and Position Light Signal. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009449
Type 63	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Position 1+2 Junction Indicator and Position Light Signal. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009450
Type 64	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Position 4+5 Junction Indicator and Position Light Signal. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009451
Type 65	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Position 1+2+4+5 Junction Indicator and Position Light Signal. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow)	086/009452
Type 66	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Position 1+2+4 Junction Indicator and Position Light Signal User to specify the method of lamp proving, post	086/009453

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Part No.	Description	PADS No.
	height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	
Type 67	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Position 1+4+5 Junction Indicator and Position Light Signal. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009454
Type 68	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009455
Type 69	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Position 1 Junction Indicator and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009456
Type 70	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Position 4 Junction Indicator and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009457
Type 71	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Position 1+4 Junction Indicator and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009458
Type 72	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Position 1+2 Junction Indicator and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009459
Type 73	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Position 4+5 Junction Indicator and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009460
Type 74	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Position 1+2+4+5 Junction Indicator and	086/009461

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Part No.	Description	PADS No.
	Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	
Type 75	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Position 1+2+4 Junction Indicator and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009462
Type 76	Dorman Integrated Lightweight Signal (iLS) 4 aspect Colour Light Signal with Position 1+4+5 Junction Indicator and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009463
Type 77	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Position Light Signal and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009464
Type 78	Dorman Integrated Lightweight Signal (iLS) 4 aspect Colour Light Signal with Position 1 Junction Indicator, Position Light Signal and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009465
Type 79	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Position 4 Junction Indicator, Position Light Signal and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009466
Type 80	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Position 1+4 Junction Indicator, Position Light Signal and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009467
Type 81	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Position 1+2 Junction Indicator, Position Light Signal and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009468
Type 82	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Position 4+5 Junction Indicator, Position Light	086/009469

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Part No.	Description	PADS No.
	Signal and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	
Type 83	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Position 1+2+4+5 Junction Indicator, Position Light Signal and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009470
Type 84	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Position 1+2+4 Junction Indicator, Position Light Signal and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009471
Type 85	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Position 1+4+5 Junction Indicator, Position Light Signal and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009472
Type 86	Dorman Integrated Lightweight Signal (iLS) 4 aspect Colour Light Signal with Standard Alphanumeric Route Indicator (Theatre). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009473
Type 87	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Standard Alphanumeric Route Indicator (Theatre) and Position Light Signal. User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009474
Type 88	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Standard Alphanumeric Route Indicator (Theatre) and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009475
Type 89	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Standard Alphanumeric Route Indicator (Theatre), Position Light Signal and Miniature Alphanumeric Route Indicator (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect (Long Range Narrow or Medium Range Narrow).	086/009476

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Part No.	Description	PADS No.
Type 90	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with 2 x Miniature Alphanumeric Route Indicators (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect.	0086/008686
Type 91	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Position Light Signal and 2 x Miniature Alphanumeric Route Indicators (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect.	0086/008687
Type 92	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Standard Alphanumeric Route Indicator (Theatre) and 2 x Miniature Alphanumeric Route Indicators (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect.	0086/008688
Type 93	Dorman Integrated Lightweight Signal (iLS). 4 aspect Colour Light Signal with Standard Alphanumeric Route Indicator (Theatre) and Position Light Signal and 2 x Miniature Alphanumeric Route Indicators (Stencil). User to specify the method of lamp proving, post height (height from top of foundation to centre of Red aspect) and type of aspect.	0086/008689
Type 100	Dorman Integrated Lightweight Signal (iLS). Banner Repeater Signal (BRS) or Preliminary Route Indicator (PRI). User to specify the method of lamp proving, post height (height from top of foundation to centre of display) and type of signal (PRI or BRS)	086/007474

Assessed Documentation

Reference	Title	Date and Applies to Cert. issue No.	
URL DTP iLS"	Complete Safety Case Submission for Dorman Integrated Lightweight 3 & 4 Aspect Signal, MARI, SARI and PLJI Pos 1, 2, 4 & 5. Includes trial report, test results, compliance matrix & Drawings	May 2012	1
PA134_1000	iLS Signal Sighting Drawing	07/06/12	1
-	Email Clive Porter to John Walker re. Current proving & intensity plots	19/06/12	1
LSS/L/1	Stencil Assembly Drawing	13/04/12	1
-	Email Clive Porter to John Walker re. Colour vs Temperature plots & PLJI Light Output	19/06/12	1
C64.65201 Iss 1	CLS LITE O&M Manual	May 2013	2
PRE_CLSLITE_3 Aspect Short frame Tunnel Iss. 0	CLS Lite 3-Aspect Short Frame Tunnel Signal Product Configuration Drawing	02/04/13	2

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Reference	Title	Date and Applies to Cert. issue No.	
PRE_CLSLITE_3 Aspect Short frame Iss. 0	CLS Lite 3-Aspect Short Frame Signal Product Configuration Drawing	02/04/13	2
PRE_CLSLITE_3 Aspect Tall frame Iss. 0	CLS Lite 3-Aspect Tall Frame Signal Product Configuration Drawing	02/04/13	2
PRE_CLSLITE_4 Aspect Iss. 0	CLS Lite 4-Aspect Signal Product Configuration Drawing	02/04/13	2
PRE_CLSLITE_4 Aspect Tunnel Iss. 0	CLS Lite 4-Aspect Tunnel Signal Product Configuration Drawing	02/04/13	2
-	Email Chris Betteridge to John Walker Regarding SSI proving issues with Dorman volt-free contact on VoG line	18/05/13	2
-	ISA Report – Dorman Lightweight Signal Circuit with Volt Free Contact Proving Redesign Designation Mod B	07/11/13	3
B20.19380 Iss. 0	iLS (CLS) Module Blanking Plate Drawing	23/10/13	3
-	Independent Safety Assessment for Product Acceptance Issue 1 (including attachments)	13/03/12	T1
OC-0359-02	Report of Readability Tests on Unipart-Dorman MRCLS	13/03/13	T1
-	iLS CLS LITE Current Proved False Illumination Report	24/07/14	4
N421-01000-NRT- ASS-SG-000003	Dorman Mk2 Medium Range Narrow Beam Signal Assessment	02/08/13	4
B09.08562 Iss. 1	Banner 3 Aspect Repeater Signal Mask Drawing	06/06/07	5
B04.03227 Iss. 1	Banner / PRI GRP Case Drawing	20/10/14	5
B13.12522 Iss. 1	Banner 3 Aspect Repeater Green LED PCB Drawing	06/06/07	5
B13.12523 Iss. 1	Banner Repeater Signal LED PCB (White Aspect) Drawing	09/01/08	5
D04.03512 Iss. 7	iLS Stencil Drive PCB Assy (Current Proving)	06/11/14	5
D04.03533 Iss. 1	Banner / PRI Post Head Assembly Without Liner	20/10/14	5
D04.03548 Iss. 0	iLS Banner (3 Aspect) Enclosure Assembly	10/09/14	5
D04.03549 Iss. 0	iLS Banner (3 Aspect) PCB, Mask and Backplate Assembly	10/09/14	5
D04.03551 Iss. 0	iLS Banner (Current Proved) Cable Assembly	10/09/14	5
LSB/GRN/AAL Iss. 0	iLS Module Banner (3 Aspect) – 110V Current Proved Long Tail Cable	10/09/14	5
C64.65066 Iss. 13	iLS CLS Serial Number Label (Generic)	12/08/15	6
-	Unipart Dorman Quiescent Current Modification to Current Proved iLS CLS	07/09/15	6
-	Email Chris Betteridge to John Walker re Dorman modified iLS Testing – Interim Results	10/07/15	6
ENC/SSL/11-SCH Iss. 4	Type 11 – Distant – Wiring Analysis Sheets	30/04/15	6
ENC/SSL/12-SCH Iss. 3	Type 12 – Stop Signal – Wiring Analysis Sheets	30/04/15	6
ENC/SSL/13-SCH Iss. 3	Type 13 – Stop Signal – Wiring Analysis Sheets	30/04/15	6
ENC/SSL/16-SCH Iss. 4	Type 16 – Inter Island Stop Signal – Wiring Analysis Sheets	19/06/15	6
LS/CMLRYG-E/DCL Iss. 1	ILS (CLS) 3 Aspect RYG Long Range Module Assy – SSL Modular VF Double Cut (Elevated) Long Tail Cable	18/06/15	6
LS/CMMRYG-E/DCL Iss. 0	iLS (CLS) 3 Aspect RYG Medium Range Wide Beam Module Assy – SSL Modular VF Double Cut (Elevated) Long Tail Cable	14/07/15	6
D04.03672 Iss. 0	13 Way to 13 Way Extension Cable (Shell Size 32)	17/02/16	7

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Reference	Title	Date and Applies to Cert. issue No.	
B20.19436 Iss. 0	Drawing Extended iLS CLS Visor 600mm Long	14/10/15	7
B20.19433 Iss. 0	Drawing Extended 3/4 iLS CLS Visor 600mm Long (Left Hand)	14/10/15	7
B20.19434 Iss. 0	Drawing Extended 3/4 iLS CLS Visor 600mm Long (Right Hand)	14/10/15	7
ISA Hydrophilic coated Lenses V.1	Application of a Hydrophilic Coating on the iLS CLS, CLS LITE, PLJI and PLS Puter Cover Mouldings	8/2/16	7
C64.65346	ILS Head Type Master Matrix	10/09/17	8
Email from Colin Hall	RE:Dorman iLS Signals	26/09/17	8
C60.59128 Iss. 0	CLS Lite Backboard with Additional Visor Mounting Inersts.	27/05/15	9
B20.19412 Iss. 2	CLS LITE Extended Visor (500mm), 135 Deg LH obstruction	10/02/17	9
B20.19541 Iss. 0	CLS Lite Visor 600mm Long	14/02/20	9
B20.19474 Iss. 0	CLS Lit Extended Visor (550mm), 135 deg RH Obscuration	22/02/17	9
B20.19543 Iss. 0	CLS Lite Visor 600mm Long 3/4 L.H	14/02/20	9
B20.19542 Iss. 0	CLS Lite Visor 600mm Long 3/4 R.H	14/02/20	9
D04.03988 Iss 0	ILS Sighting Scope Camera Bracket Kit	04/04/20	10
C64.65569 (No Issue)	Sighting Scope Camera Bracket Instructions	04/04/20	10
P134-3519-01185	Change Significance Assessment - iLS CLS Temporary Phantom Fix	21/01/21	11
OC-1071-01	Optical Test Report Unipart Dorman iLS Colour Light Signal	21/01/21	11
OC-1057-01	Optical Test Report Unipart Dorman New iLS Colour Light Signal	21/01/21	11
NA	Test report on Readability tests conducted at Aintree Racecourse 10th December 2020	21/01/21	11
IS 19056	Assessment of Dorman iLS Modules and their Susceptibility to Phantom Aspects from Class 700 Train Windscreens	21/01/21	11
-	Trial Report for Mk2.4 iLS CLS Lite	25/05/21	12

Certificate History

Issue	Date	Issue History
1	19/06/2012	First accepted for use
2	29/05/2013	Second acceptance to add the CLS LITE housing for mounting on conventional structures. Volt-free contact proved variant acceptance restricted due to contact resistance and timing issues.
T1	14/03/2013	Trial certificate for Medium Range Wide & Narrow Signals
3	07/02/2014	Modification state B accepted for modules with volt free contact proving to ensure proving is maintained during flashing aspects and SSI Power Disable Tests. Complete iLS signals added to facilitate a more efficient ordering process.
4	10/10/2014	Fourth acceptance to include the full suite of medium range signals and to place a user requirement to check for extraneous voltages.
5	14/07/2015	Fifth acceptance to include Banner Repeater Signal, Preliminary Route Indicator & Standard Alphanumeric Route Indicator.
6	11/09/2015	Sixth acceptance to add signals for SSL East Notts Project and to accept a modification to the current proved Colour Light Signal module.

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7	27/07/2016	Seventh acceptance to add: Wiring harness 086/007487, Extended visor 600mm 086/007488, Extended ¾ iLS CLS Visors 600mm 086/007486 and 086/007485, CLS LITE extended visor 550mm 135 Deg LH obstruction and kit for 4 aspect 086/007489 and 086/007490. All signals from 1/8/2016 will come with the internal side of the lens coated in a hydrophilic coating – this will be identifiable by a sticker placed on the internal lenses reading ANTI-FOG COATED. This is to help address the issue of a small amount of condensation appearing on the outer lens.
8	26/09/17	Addition of double MARI to range of iLS signals (Type 41, 42, 43, 44, 90, 91, 92 and 93).
9	29/02/2020	Addition of obscuration visors on backboard kits.
10	04/04/2020	Addition of Recalibration Process
11	21/01/2021	Updated to include trial of modified top yellow module for improved phantom performance.
12	25/05/2021	Updated to include full acceptance of modified top yellow module for improved phantom performance.

Contact Details

Manufacturer

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General Terms & Conditions

1) General

- 1) This certificate can only be amended by Network Rail Technology Introduction Group. Any alterations made by a different person 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.

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 Acceptance Requirements and in any deed of warranty for the relevant 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.
- 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 2011, where the specification and/or Product Acceptance Certificates specify quality assurance classifications (QA1 to QA5) 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 Technology Introduction Group.
- 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 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.
- 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 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.

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