
Filament or LED Type Signal Signalling Works Test Specification

Includes:	Colour light signal, position light signal, position light junction indicator, standard (theatre type) indicator (SARI), miniature (stencil) indicator (MARI), banner repeaters, LED signals, including Dorman and VMS lightweight types.
Excludes:	Siemens (SIMIS-W) applications, Searchlight signal, electro-mechanical types and dichroic mirror.
Related Test Specifications:	NR/L2/SIG/30014/D120/TS7-91.
Related Standards:	GK/RT0009 Identification of Signalling and Related Equipment, GK/RT0045 Lineside Signals, Indicators and Layout of Signals. Note: all relevant Technical Instructions and Notice Boards are to be checked for new instructions.
Related Design details:	Scheme plan, Signal Sighting Form, Loc area plan, REB/Location drawings.
Recording of Testing:	Completion of tests shall be by application of the Check Marks and recording of values on Test Copy diagrams, including the SSF, by recording of values on the appropriate Record Card, and by signing the appropriate Test Certificate.
Pre-requisites:	Signal handed over and safe to climb complete (where applicable). REB/ Location case and Cable tests complete prior to function testing.

Safety Warnings

Check that it is not possible to give a driver an aspect from a non commissioned signal/indicator/route. *Check* that non-commissioned signals/fixtures remained covered during normal train operation. Before ascending any structure *Check* that a 'Safe to Climb' certificate has been issued, covering the structure, the ladder and the OLE conditions (where applicable).

General

This test specification is formed of the following sections, which correlate to the competency levels identified in NR/L2/SIG/30014/B410 for this type of equipment or testing.

1. Inspection
2. Wire Count & Continuity
3. Function Tests
4. Sighting
5. Correspond

General definitions of terms are given in NR/L2/SIG/30014, however terms specific to this specification are defined in the last section of this specification.

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1. INSPECTION

1.1. CARRY OUT INSPECTION TO SIGNAL SIGHTING FORM TO SPECIFICATION NR/L2/SIG/30014/D120/TS7-91.

1.2. Carry out *CHECK for CORRECT TYPE*:

1.2.1. Check that lamps (if fitted) are of the correct type and that there is no intermixing of 'ordinary' SL35 'Greenstock' SL35 and '8000 hour' long-life lamps.

NOTE: Check that for Halogen 10v or 12v applications that the individual transformer windings match the type of lamp in use. Overdriving a transformer to obtain a higher voltage may cause a wrong side failure.

1.2.2. Check that the type, make, model and rating of the signal head is in accordance with that specified in the wiring diagrams.

1.2.3. Check that the SPRS switch (if fitted) allows the key to be released in either position, and that 'Auto/Red' labelling is fitted and legible. Check where more than one SPRS switch is fitted that each switch is correctly labelled for the signal it controls.

1.3. Carry out *CHECK for NO DAMAGE*

1.4. *CHECK for CORRECT LABELLING*:

1.4.1. Check that all labelling is as specified in the SSF, wiring diagrams and scheme plans.

1.4.2. For Dorman LED lightweight signal Check that the Identification Label shows the correct Signal Number and post length.

2. WIRE COUNT and CONTINUITY

2.1. *WIRE COUNT* cable cores and terminations to the wiring diagram:

2.1.1. Check that internal / common return links are connected correctly.

NOTE: VMS LED and Dorman lightweight LED signals and indicators are enclosed in sealed housings, and there is no requirement to open / enter the enclosure. Connection to the signal / indicator is via a plug coupler at the rear. There is no terminal block, although some installations may use a disconnection box as an interface. Where these are provided, these terminals shall be wire counted.

2.2. *CONTINUITY TEST*; internal / common return link wires.