

Siemens Application Filament Signal

Includes:	Siemens application of adapted Colour light signal, position light signal, position light junction indicator, standard (theatre type) indicator, miniature (stencil) indicator, banner repeaters.
Excludes:	Standard signal / indicator and LED applications, Searchlight signal, electro-mechanical types dichroic mirror types and VMS types.
Related Test Specifications:	NR/L2/SIG/30014/D120/TS7-91 Signal Sighting and Beam Alignment.
Related Standards:	GK/RT0009 Identification of Signalling and Related Equipment, GK/RT0045 Lineside Signals, Indicators and Layout of Signals GI/RT7033, NR/L2/SIG/30027 (Plug Couplers for Connection of Cables to Lineside Signalling Equipment) Note: all relevant Technical Instructions and Notice Boards are to be checked for new instructions.
Related Design details:	Scheme plan, Signal Sighting Forms, Loc area plan, Container / SSB – TEB 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 safe to climb complete. Container / SSB – TEB 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). High voltages ($\leq 230\text{v}$) are contained within the SSB & TEB cases and may be present on the Signal lamp connections under fault conditions.

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
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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Note: The Siemens SIMIS-W application differs from standard fitments in three main ways:

- There is an Interface case (SSB or TEB) between the electronic interlocking and the signal head,
- The signal head contains no transformers or EKR relays and is fed directly with lamp voltages from the interface case,
- There is a safety requirement for continuous earth bonding.

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* and additionally;

1.2.1. *Check* the correct Signal Switching Box (SSB) or Trackside Equipment Box (TEB) is fitted, depending on function. This is identified by type number on the equipment case and indicated in the design.

1.2.2. *Check* that lamps are of the *correct type* and are either:

- 12v / 8000 hour long-life lamps for MAS / PLJI as indicated in the design or,
- 10v / 50w Quartz Halogen for BR / PL / GPL / Indicators as indicated in the design.

1.3. *Check* for correct installation and security of all equipment:

1.3.1. *Check* there are no parts of the structure, earth bonding cables or foreign objects capable of obscuring or interfering with the beam or any aspect or indication.

1.3.2. *Check* the entry cable is secured and the maximum length of tail cable depending on function and Primary/Secondary control distances is within the limits indicated in the design.

1.3.3. *Check* the signal head terminals are shrouded and high voltage warning label is displayed.

1.3.4. All equipment is secured by the correct type of key lock / padlock as appropriate.

2. WIRE COUNT

WIRE COUNT cable cores and terminations to the wiring diagram.