
Mechanically Operated Point End Signalling Works Test Specification

Includes:	Points operated from mechanical levers, including mechanically operated Facing Point Locks, BR998 electrical detection.
Excludes:	All power operated points, any supplementary detectors.
Related Test Specifications:	NR/L2/SIG/30014/D120/HS6-01
Related Standards:	NR/L2/SIG/11704 Signalling Requirements for the Application Design and Management of Points. GK/RT0077, NR/L2/SIG/11704 NR/L2/TRK/6100 The Installation and Maintenance of Stretcher Bars. Note: all relevant Technical Instructions and Notice Boards are to be checked for new instructions.
Related Design details:	Scheme plan, Loc area plan, SB / 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, by recording of values on the appropriate record card, and by signing the appropriate test certificate.
Pre-requisites:	Cables tested. REB / Location case sufficiently tested prior to function testing. Equipment installed and Permanent Way works complete. Point End Handover carried out to specification NR/L2/SIG/30014/D120/HS6-01.

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 and Continuity
3. Mechanical Set Up (Mech SU) and Test
4. Function Test
5. Correspond

General definitions of terms are given in NR/L2/SIG/30014/E110, however terms specific to this specification are defined in the last section of this specification.

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1. INSPECTION

- 1.1. Review Handover Certificate(s) or, where not provided, complete Certificate(s) as far as possible without disarranging the points.
- 1.2. *CHECK for CORRECT TYPE:*
- 1.3. *CHECK for NO DAMAGE:*
Check the Condition of equipment and Track.
- 1.4. *CHECK for CORRECT POSITION:*
 - 1.4.1 Check point switch tips are in the correct longitudinal position as specified in the Scheme Plan.
 - 1.4.2 Check any BR998 Detector is fitted in the correct position as specified.
- 1.5. *CHECK for CORRECT LABELLING:*
 - 1.5.1. Check Switch Identification, confirm name / number plate correct to Scheme Plan, securely fitted and referenced to the correct switch rail side.
 - 1.5.2. Check all equipment labelled according to point numbering as specified in the wiring diagrams and Scheme Plan.

2. WIRE COUNT AND CONTINUITY

- 2.1. *WIRE COUNT:*
 - 2.1.1 *WIRE COUNT* all free wired terminations (including jumpers) between the equipment housing outgoing links and the BR998 Detector to the design.
- 2.2 *CONTINUITY TEST* or hand trace external strapping.
- 2.3 DETECTION CIRCUIT RESISTANCE TEST.
 - 2.3.1 Check all point ends are Normal.
 - 2.3.2 Disconnect the detection circuit at the links closest to the detection relay.
 - 2.3.3 Measure the resistance through each leg of the point detection circuit from fuse/terminal to the relay link. Tap the micro switches and Test for any light contacts by observing the resistance value. The resistance shall be less than 10Ω.
 - 2.3.4 Repeat for Reverse detection circuit.