



AUSTRALIAN RAIL TRACK CORPORATION

Certificate No.: **S 02-1205-123**

NEW EQUIPMENT & SYSTEM APPROVAL CERTIFICATE

Approval date: 3rd May 2013

Approved by: Operations Safety & Environment
Review Group

Report no.: TAS-02-1205-SI123

Report date: 10th April 2013

This certificate is issued to:

Supplier: **SIEMENS**

In respect of:

Manufacturer: **SIEMENS**
153 Campbell Street
Bowen Hills
Queensland

Product description: **IN BEARER POINT MACHINE**

Item identification: **S700V**

Application: In Bearer Point Machine to power operate turnouts across the entire ARTC network

Relevant Standards: SPS 02 – 'Environmental Conditions';
SPS 05 – Electrical & Electronic Components;
SPS 16 – Point Machines
ESC-07-01 – Installation of Trackside Equipment
SMS 05 – Claw Lock Mechanism – Description & Operation
SDS 25 – Circuit Design Standards

Conditions of Approval:

1. Procurement procedures for all versions of this machine shall include specification of the crank handle keying (A1 to A19) and shall require that the voltage cut-off key shall remain captive in the machine when operated.
2. The crank handle for each machine shall have a voltage cut-off key permanently attached such that the crank handle may be operated whilst the key is captive in the cut-off switch on the machine.
3. The point machine must be used to drive a separate 'rail head locking mechanism' (e.g. Claw Lock) unless a trailable (non-locking) arrangement is required.
4. Only 120v dc machines are covered in this approval. This machine has AC immunity but is not immune to DC traction currents.
5. For use in accordance with ARTC specification SDS 25 – 'Circuit Design Standards'. The agreed standard typical circuits for the S700K/V points machine shall be formalised.
6. Point machine detection circuit shall be wired over contacts in the voltage cut-off switch.
7. Only components from the list in **02-1205-123a** may be utilised. Only to be used in accordance with the referenced standard configuration drawings.
8. Operations and Safeworking procedures including access to crank handle and operation of the voltage cut-off switch shall be published

before the equipment is commissioned.

9. The R800 SNX RH/LH VAE turnouts must use the specific drive and detection rods supplied by Siemens
10. CL Locks must be used on all new installations.
11. To be installed in accordance with ARTC signals constructions standards.
12. To be operated and maintained in accordance with the TMP and service schedules SS073802 and SS073804.

A general condition of approval is that the supplier remains accredited to ISO 9001 specifically for these products and ARTC is advised on a 12 monthly basis that accreditation is current. ARTC reserves the right to conduct its own audit of the manufacture and supply of these components to AS 19011:2003.

Any subsequent change to the design, materials or manufacturing process is not covered by this approval. The manufacturer shall notify ARTC of any modification or changes in order to obtain a valid certificate for the changes.

Note/Comments:

None

Issue date:

7th May 2013

Expiry date:

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Issued by:



John Furness
ARTC Manager Standards

NEW EQUIPMENT & SYSTEM APPROVAL - APPROVED ITEM LIST

Product description: **SIEMENS S700V IN BEARER POINT MACHINE**

Certificate No: **S 02 1205 123**

The following lists the individual types (by catalogue number) of S700V In Bearer Point Machine manufactured by SIEMENS which are type approved for use in signalling circuits on ARTC infrastructure under Type Approval Certificate **S-02-1205-123** subject only to any conditions shown on that Certificate and the Conditions of Use shown against individual types.

S700V In Bearer Points Machine

General Arranger	T/O Size	Type	Machine Side	Front Lock	Rear Lock	PRE	VAE	Martinus	Notes
A0-G1748-117	1 in 15	Point	RH	Spherolock	-	-	X	-	VAE In-Bearers
A0-G1748-199	6100	Point	RH	Claw Lock	-	X	X	X	
A0-G1748-217	R800	Point	RH	Spherolock	Spherolock	X	-	-	Newdell Junction only
A0-G1748-233	6100	Catchpoint	RH	Claw Lock	-	X	X	X	
A0-G1748-238	6100	Catchpoint	RH	Claw Lock	-	X	X	X	
A0-G1748-260	R800	SNX	RH/LH	Spherolock	-	X	-	Unknown	
A0-G1748-299	R800	Point	RH	Spherolock	Spherolock	X	X	X	
A0-G1748-309	R800	Point	LH	Spherolock	Spherolock	X	X	X	
A0-G1748-336	1 in 15	Point	RH	Claw Lock	-	-	X	-	VAE In-Bearers
A0-G1748-362	R1200	Point	RH	Spherolock	Spherolock	X	X	X	
A0-G1748-367	R1200	Point	LH	Spherolock	Spherolock	X	X	X	
A0-G1748-368	6100	Point	RH	Claw Lock	-	X	X	X	ELP-319 Detection
A0-G1748-369	6100	Point	LH	Claw Lock	-	X	X	X	ELP-319 Detection
A0-G1748-376	R300	Point	RH	Spherolock	Unlocked	X	X	X	
A0-G1748-377	R300	Point	LH	Spherolock	Unlocked	X	X	X	

A0-G1748-392	R300	SNX	RH/LH	Spherolock	-	X	-	Unknown	
A0-G1748-394	R800	Point	RH	Spherolock	Unlocked	X	X	X	
A0-G1748-435	R190	Point	RH	Spherolock	Unlocked	X	X	X	
A0-G1748-438	R500	Point	RH	Spherolock	Unlocked	X	X	X	
A0-G1748-448	R800	SNX	RH/LH	Spherolock	-	-	X	-	VAE Specific (Drive and dete rodding supplied by Siemens