

Certificate No. S-02-1512-184

Approval date

06/06/2018

Approved by

GM Technical Standards

Report no.

TAS-02-1512-SI-184

Report date

25/05/2018

This certificate is issued to

Supplier

Siemens

Level 7, 380 Docklands Drive Docklands, Victoria 3008

In respect of

Manufacturer

Siemens

Product description

- Siemens Switchguard® HLM MkII Point Lock and Detector variants

Siemens Switchguard® HM MkII Point Detector variants

Item identification

Refer to Approved Item List

Application

ARTC Network Wide

Condition of Approval:

Condition of Appro	Ovai.	
General	1. 2.	Only items listed in Approved Item list shall be utilized. Only 110/120V AC and 12 VDC detectors are covered by this approval: i. 120V AC machine: shall not be used in areas where running rails carry AC traction current. ii. 12V DC machine: shall not be used in areas where running rails carry DC traction current.
	3.	For use in accordance with ARTC standards. i. SPS02 –Environmental Conditions ii. SPS03 – Signs, Notice Plates and Instruction Plates iii. SPS05 – Electrical and Electronic Components-(Rating and Construction Requirements), iv. SCP14 - Type Approval Requirement for Signalling System and Equipment v. ESC-07-01 – Installation of Trackside Equipment
Supplier /	4.	All documentation / manual from the supplier supporting this system
Manufacturer	5. 6.	shall be in English. The unit must be fitted with a readily visible label stating the Equipment Serial Number, Version Number, along with the manufacturer's identification and date of manufacture. 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.
	***************************************	Any subsequent change to the design, materials or manufacturing process is not covered by this approval. The Supplier shall notify ARTC of any modification or changes in order to obtain a valid updated certificate.



Signal Designers	 8. For use in accordance with ARTC Standards. 9. For use in accordance with ARTC typical circuits only. Point machine detection circuits shall be wired over contacts in the voltage cut-out switch.
Signals Installers /	 Detection rods to be installed with a matched set of M20 HARD LOCK nuts. These should be proprietary Hard Lock self-locking nuts
Testers / Maintainers	from HARD LOCK Industry Co, Ltd. 11. Maintenance overhaul to be completed after 200,000 operations or 10 years (whichever comes first). 12. To be operated and maintained in accordance with TMP and service schedules.

Note/Comments

NIL.

Issue date

07/06/2018

Expiry date

N/A

Issued by

Munes

John Furness

ARTC Manager Standards



Approved Item List:

Siemens Switchguard® HLM Mkll Point Lock and Detector variants.

Catalogue No.	Style	Detection Bars	Profile	Coil Voltage	Hand Release	
HM MKII Point Lock with Detector						
1570101408	HLM2	2	Wide	110V AC	No	
1570101409	HLM1	1	Wide	110V AC	No	
1570101410	HLM	0	Wide	110V AC	No	
1570101303	HLMX	0	Narrow	110V AC	No	
1570101411	HLM 2 Position Lock	0	Wide	110V AC	No	
1570101310	HLMX	0	Narrow	12V DC	No	
1570101416	HLM2	2	Wide	12V DC	No	
1570101417	HLM1	1	Wide	12V DC	No	
1570101418	HLM	0	Wide	12V DC	No	

Siemens Switchguard® HM MkII Point Detector variants

Catalogue		Detection Bars	Profile	Hand Release	Detection Bar (mm)		
No.	Style				Lug Drop	Range	
HM Detector Only (No Lock)						Customized to customer requirements to suite specific application	
1570100901	HMX1	1	Narrow	No	20	100 - 140	
1570100902	HMX2	2	Narrow	No	20	100 - 140	
1570100903	HMX2 Special Detection Bars	2	Narrow	No	59*	100 - 140	
1570100904	HMX2	2	Narrow	No	20	80 - 110	
1570100905	HMX2	2	Narrow	No	20	160 - 190	
1570100906	HMX2	2	Narrow	No	20	130 - 170	
1570100907	HMX2	2	Narrow	No	20	60 - 90	
1570100908	HMX2	2	Narrow	No	3.5	100- 140	
1570100909	HMX2	2	Narrow	No	- 1	100 - 140	
1570100910	нмх	0	Narrow	No	No dete	ction bars	



Catalogue		Detection Bars	Profile	Hand Release	Detection Bar (mm)	
No.	Style				Lug Drop	Range
1570100301	HM1	1	Wide	No	20	100 - 140
1570100302	HM2	2	Wide	No	20	100 - 140
1570100303	НМ3	3	Wide	No	20	100 - 140
1570100304	HM4	4	Wide	No	20	100 - 140
1570100305	HM4 Special Detection Bar	4	Wide	No	20	100 - 140

<u>Note:</u> Siemens have equivalent counterparts with coil voltages at 24V DC, 50V DC and 110V DC. Only 110V AC and 12V DC range have been assessed as part of this type approval assessment.

HLM Mkll Retrofit Lock bar - Part list

Catalogue No.	Style
TWO POSITION LOCK	3570203403
SPECIAL DROP LUG - 28 mm Below Mounting face	3570203402
SPECIAL DROP LUG - 46 mm Below Mounting face	3570203401

Approved Supplier Documentation List:

- 1. TTTNHLM2 Issue 2.0 Field Installations and Maintenance Guide
- 2. HLM MkII Point Lock with Detector and HM Point Detector Product Datasheet 2D-6 Issue 1.0