



AUSTRALIAN RAIL TRACK CORPORATION

Certificate No.: **TAC-02-1401-DE145**

## NEW EQUIPMENT & SYSTEM APPROVAL CERTIFICATE

**Approval date:** 30<sup>th</sup> April 2014

**Approved by:** Operations Safety &  
Environment Review Group

**Report no.:** TAR-02-1401-DE145

**Report date:** 14<sup>th</sup> April 2014

This certificate is issued to:

**Supplier:** DEHN + SÖHNE GmbH+Co.KG  
PO Box 290,  
South Melbourne, VIC 3205  
Tel: 03 8414 8277  
*hans.slagter@dehn.com.au*

In respect of:

**Manufacturer:** DEHN + SÖHNE GmbH+Co.KG  
**Product description:** **VOLTAGE LIMITING DEVICE**  
**Item identification:** SDS-1

**Application:** Surge Protection and Electric traction spark gap arrester

**Relevant Standards:** ESD-07-02 – Track Bonding and signalling infrastructure in electrified areas

**Conditions of Approval:**

1. That only the components listed in the attached Appendix B may be used.
2. Any change to the components or performance of the components to be submitted to ARTC for approval.
3. To be installed as a Voltage Limiting Device or as a Spark Gap Arrester in electrified networks only.
4. DEHN to remain accredited to ISO9001 for manufacture of the surge protection equipment.
5. That the devices are installed in accordance with DEHN Installation guideline.
6. The MA SDS M12 mast adapter to be installed on the mast in accordance with the DEHN instruction No. 1826. Installation on alternate brackets is only permitted against ARTC approval of the alternate bracket drawing.
7. The Mast Adapter is to be coated with cold galvanising spray paint to disguise it to prevent theft.
8. Use as a Voltage Limiting Device is only permitted where there are

Maintenance Procedures covering the routine inspection and testing of the device and testing of the device after a traction current circuit breaker trip.

9. Use as a Voltage Limiting Device is only permitted where the bonding design has been verified against the ARTC signalling requirements of this report.

10. Traction Bond cables to be in accordance with ARTC standard SPS 49.

*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.*

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

**Note/Comments:** None

**Issue date:** 2<sup>nd</sup> May 2014

**Expiry date:** N/A

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**Issued by:**



John Furness  
ARTC Manager Standards

## NEW EQUIPMENT & SYSTEM APPROVAL - APPROVED ITEM LIST

**Reference no.:** TAR-02-1402-DE145

**Date:** 2<sup>nd</sup> May 2014

**Product description:** VOLTAGE LIMITING DEVICE

**Certificate no.:** TAC-02-1402-DE145

The following lists the individual items (by catalogue number) of <<insert product>> manufactured by <<insert manufacturer>> which are approved for use on ARTC infrastructure under the above referenced New Equipment & System Approval Certificate number, subject to any conditions shown on that Certificate and the Conditions of Use shown against individual items.

Catalogue /Part No.	Item Type	Description	Conditions of Use (including Version number if applicable)
923 110	SDS-1	Voltage Limiting Device	Voltage Limiting Device – may be used as a Spark Gap Arrestor 600V DC spark over voltage
723 199	MA SDS-M12	Mast Adapter for SDS-1	Mast Adapter for SDS-1

Legend: