

**Certificate No. S 02-14-27-159**

**Approval date** 13 January 2015  
**Approved by** Operational Safety & Environment Review Committee  
**Report no.** TAR 02-1427-EC159  
**Report date** 16 October 2014

*This certificate is issued to*

**Supplier** Electronic Components Pty Ltd

*In respect of*

**Manufacturer** Arc Suppression Technologies LLC  
7900 International Drive, Suite 300  
Bloomington MN 55425 USA

**Product description** NOSPARC Arc Suppressor

**Item identification** See Approved Item List

**Application** Arc suppression for use in level crossing boom gates across entire ARTC network

**Relevant Standards** SPS 02 Environmental Conditions  
SPS 22 Power Supply Units for Signalling Equipment – General Requirements  
SDS 25 Signalling Circuit Design Standards

**Conditions of Approval**

1. Wire lengths to be kept as short as possible, wire sizes (overall minimum overall minimum  $\varnothing$ ) to be followed as per below:
  - a. 1.29mm $\varnothing$  (minimum) for less than 0mm to 300mm of wire length between 'NOsparc' and contact terminals,
  - b. 1.63mm $\varnothing$  (minimum) for less than 300mm to 600mm of wire length between 'NOsparc' and contact terminals, and
  - c. 2.05mm $\varnothing$  (minimum) for less than 600mm to 900mm of wire length between 'NOsparc' and contact terminals
2. Only components listed within the approved items list may be utilised.

*A general condition of approval is that the supplier remains compliant to ESG-00-15 'ARTC Quality Controlled Supplier' requirements specifically for these products and ARTC is advised on a 2 yearly basis that the requirements are being met. 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.*

## NEW EQUIPMENT AND SYSTEM APPROVAL CERTIFICATE

**Issue date**

27 January 2015

**Expiry date** N/A

**Issued by**

**John Furness**   
**ARTC Manager Standards**

### Approved Item List

The following lists the individual items (by catalogue number) 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.

Part Number	Voltage Type	Voltage	Voltage Range	Max Current	Mounting	Revision
MHXAC1F480	AC	480	+/-15%	50 A	Panel	MHX
MHXAC1F240	AC	240	+/-15%	50 A	Panel	MHX
MHXAC1F120	AC	120	+/-15%	50 A	Panel	MHX
MGXDC1F48	DC	48	+/-15%	50 A	Panel	MGX
MGXDC1F24	DC	24	+/-15%	50 A	Panel	MGX