

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 Ø) to be followed as per below:
 - a. 1.29mmØ (minimum) for less than 0mm to 300mm of wire length between 'NOsparc' and contact terminals,
 - b. 1.63mmØ (minimum) for less than 300mm to 600mm of wire length between 'NOsparc' and contact terminals, and
 - c. 2.05mmØ (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 |