

## NEW EQUIPMENT AND SYSTEM APPROVAL CERTIFICATE

**Certificate No. S-01-1205-122b**

**Approval date** 16 March 2015  
**Approved by** Review Panel  
**Report no.** TAR-01-1205-GE122  
**Report date** 20 March 2014

*This certificate is issued to*

**Supplier** GE Transportation Systems Pty Ltd

*In respect of*

**Manufacturer** GE Transportation Systems Pty Ltd  
 63 Karel Avenue  
 Jandakot WA 6164

**Product description** MDSA (Motion Detector Surge Arrestor)

**Item identification** Motion Detector Surge Arrestor

**Application** GE MDSA approved for use for protection of XP4 and HXP-3 Predictor Level Crossings as manufactured by GE.

**Relevant Standards** SPS 02 – Environmental Conditions  
 ESC-09-02 – Lightning and Surge Protection Requirements  
 ESC-03-01 – Level Crossing Equipment

**Conditions of Approval** 1. To be installed in accordance with the following performance requirements:

The MDSA (Motion Detector Surge Arrestor) is to be used for the protection of XP4 and HXP-3 Predictor Level Crossings as manufactured by GE only.

There are two variants of the MDSA; the MDSA-1 & 2 and the MDSA-1XS & 2XS (the 1 and 2 dictates if the MDSA is to be used with single or double track layouts).

MDSA-1 and MDSA-2 are manufactured to support HXP-3 with a maximum battery B12/N12 draw of 6 amps.

MDSA-1XS and MDSA-2XS are manufactured to support XP4 where the addition of application modules can increase the battery B12/N12 draw up to 12 amps.

Each predictor track must use an MDSA.

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Predictor tracks cannot share the same MSDA.

Track Count	MSDA variant	Predictor X'ing type
Single Track	MDSA-1	HXP-3
Double Track	MDSA-2	HXP-3
Single Track	MDSA-1XS	XP4
Double Track	MDSA-2XS	XP4

2. To be installed in accordance with the manufacturers installation requirements.

*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.*

**Issue date** 7 April 2015

**Expiry date** N/A

**Issued by**

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