



AUSTRALIAN RAIL TRACK CORPORATION

INFRASTRUCTURE, STRATEGY AND PERFORMANCE

Engineering Standards and Documents

The following recommendation, together with attached supporting documentation, has been considered by the Manager Standards & Systems on 26th April 2007.

Documents:

Ref No:	08-08-10-060 Equipment Type Approval
Subject:	'Omron' Non-vital Plug-in 'octal' Relays
Dated:	2 nd March 2007.

Prepared By: Arthur Haberlin, Signalling Engineer

Endorsed by: Trevor Moore, Signalling Standards Engineer

Items Considered for Approval:

Manufacturer:	Omron
Product:	Non-vital relays and bases
Item Identification:	See item list Ref No: 08-0702-042a

The items in the form presented at the review date were approved for System & Equipment Approval to be used on all ARTC jurisdictions in accordance with the manufacturers published performance criteria and subject to the following.

Relevant ARTC Specifications:

Ref. No.	Title	Status	Date
SPS 02	Environmental Conditions	Issue 1 Revision 2	May '05
SCP 05	Electrical & Electronic Components (Ratings & Construction Requirements)	Issue 1 Revision 3	May '05
SC 02 01	Installation of Equipment Racks & Termination of Cables and Wiring	Issue 1 Revision 3	October '06

Specific Conditions of Approval:

- i. For use in accordance with standard typical circuits and/or in ARTC specified power supply equipment only.
- ii. Only components from the list **08-0702-042a** may be utilised.
- iii. These relays and bases may be combined with the equivalent type approved relays and bases from other manufacturers.
- iv. Manufacturers current, voltage and environmental specifications shall exceed the relevant ARTC specification limits for the service and location in which the relays are to be installed.


Certificate Issued to:

Omron Electronics Pty. Ltd
71 Epping Road
North Ryde
Sydney
N.S.W. 2113

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 19011:2003.

Any subsequent change to the design, materials or manufacturing process is not covered by this approval.

Approved for use in the ARTC.



John Cowie
Manager Standards & Systems

APPROVAL No: 08-08-10-060

Approval Date: **26th April 2007**



AUSTRALIAN RAIL TRACK CORPORATION LTD

Ref No: 08-0702-042a

Date: 21st February 2007

System & Equipment Approval

Subject: 'Omron' Non-vital plug in 'octal' relays

The following lists the individual types (by catalogue number) of Non-Vital plug in 'octal' relays manufactured by Omron and distributed by Omron Electronics Pty. Ltd. which are approved for use in signalling circuits on ARTC infrastructure under System & Equipment Approval Certificate 08-08-10-060 subject only to any conditions shown on that Certificate and the Conditions of Use shown against individual types.

Catalogue No.	Coil voltage	Description	Conditions of Use
MK2P-I ♣	DC48V	2 pole c/o 8 pin plug.	Note:- Alternative coil and contact configurations (Catalogue Nos. MK2P2-I and MK3P-5-I) are available which can be plugged into the same base. Since the alternate wiring could conflict with the existing circuits care should be taken to ensure that relays to the alternate configuration are NOT used anywhere in signalling equipment housings.
MK3P-I ♣	DC12V	3 pole c/o 11 pin plug.	
MK3P-I ♣	DC24V	3 pole c/o 11 pin plug.	
MK3P-I ♣	DC48V	3 pole c/o 11 pin plug.	
MK3P-I ♣	DC110V	3 pole c/o 11 pin plug.	
MK3P-I ♣	AC24V	3 pole c/o 11 pin plug.	
MK3P-I ♣	AC120V	3 pole c/o 11 pin plug.	
MK3P-I ♣	AC240V	3 pole c/o 11 pin plug.	
Bases & Clips			
PF083A-E	n/a	8 pin base.	DIN rail or panel mounting.
PF113A-E		11 pin base.	
PFC-A1		Retaining clip.	

♣ Ordering code must include Catalogue No. and Coil voltage.