

Order Number

Serial Number

## PRODUCT/TEST MANUAL

**2C10K8**

**EARTH FAULT INDICATOR**

<b>Issue Level</b>	<b>Date</b>	<b>Summary of changes</b>
A	24/02/00	Initial issue.

Due to RMS continuous product improvement policy this information is subject to change without notice.  
This document is uncontrolled and subject to copyright.

<b>Author</b>	<b>Checked &amp; Registered</b>	<b>.pdf file created</b>	<b>Released</b>
ERL	MW	MW	

**1. ASSOCIATED DRAWINGS**

159 - 010 - 108 Wiring Diagram  
 This Product Test Manual is in reference to EFI4C  
 Dated 15/02/00

**2. HIGH VOLTAGE TESTING**

1. Apply 2KV RMS 50Hz between terminal Groups 1 and 2 in Table 1 for 1 minute.
2. Apply three 5KV 1/50us pulses of each polarity between terminal Groups 1 and 2 in Table 1.

**TABLE 1**

**GROUP 1**

All Terminals  
 6,9,2,3,4  
 6,9,17,18,19

**GROUP 2**

Frame  
 17,18,19 +E  
 2,3,4 +E

**3. TEST PROCEDURE**

1. Apply an adjustable AC current source to terms 6 & 9.
2. Adjust current until the relay picks up.
3. Check the pick up current is 5 Amps +/- 20%.
4. Check the drop out current is greater than 1.5 Amps.

	Min	Max	Nominal	
Pickup Current	4.0	6.0	5.0	<b>Amps</b>
Drop out Current	1.5		1.5	<b>Amps</b>

Check

5. Check operation of the flag and that it resets correctly. Check

**4. GENERAL & FUNCTIONAL**

Check the relay nameplate is engraved "Earth Fault Indicator Type EFI4C" and the bottom left hand corner of the base is labelled "EFI4C".

Check that the relay is electrically sound and mechanically robust as per Standard Inspection & Test Schedule 903-000-026.

**PASS**

TESTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_