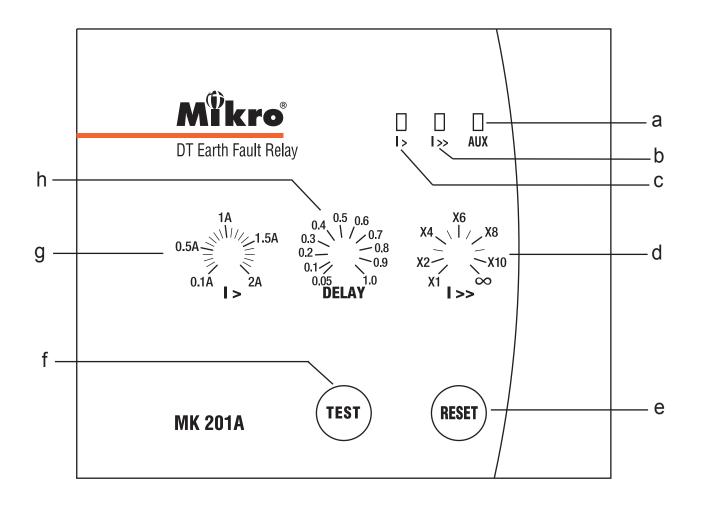
MK201A DT Earth Fault Relay User's Guide

A BRIEF OVERVIEW



- a Auxiliary power supply indicator
- b High-set start/trip status indicator
- c Low-set start/trip status indicator
- d Earth-fault high-set adjustment
- e Trip reset button
- f Test button
- g Earth-fault low-set adjustment
- h Delay time adjustment

TECHNICAL DATA

1. Current and Time Adjustments

Earth-fault Low-set Current (I>) Adjustment

- This adjustment is for setting the minimum earth-fault current for tripping. If the measured current exceeds this threshold value, tripping starts. After a prefixed delay time determined by the DELAY adjustment, the trip contacts will be activated.
- The setting range is from 0.1A to 2A.

Earth-fault High-set Current (I>>) Adjustment

- This adjustment is for setting the instantaneous tripping current due to an earth-fault.
- The setting range is from 1x to 10x of the earth-fault low-set setting value. $| >> = a \times | >$. a = 1 to 10
- This high-set feature can be disabled by setting the tripping current to infinity (')

Time Delay (DELAY) Adjustment

- This time delay setting is for setting the delay time from the start of the earth-fault low-set tripping to actual tripping of the relay contact.
- The setting range is from 0.05 sec to 1.0 sec.

2. Light Indicators

The light indicators display the status of the system.

	Indicator		
AUX	>	>>	Status
Off	Off	Off	No auxiliary power supply.
On	Off	Off	System normal mode. No tripping.
On	On	Off	Earth-fault low-set start.
On	Blink	Off	Earth-fault low-set tripped.
On	Off	On	Earth-fault high-set start.
On	Off	Blink	Earth-fault high-set tripped.

3. Push Buttons

Reset Button

- The reset button is for resetting the light indicators (I> or I>>) after an earth-fault tripping has occured.
- To reset, press the reset button once.

Test Button

- Test button is for checking the relay operation.
- Push on the test button to simulate an earth-fault low-set and high-set trip condition.

4. Trip Contacts

There is one set of tripping contacts namely, R1.

R1 - Manual Reset Type

 This contact (R1) is activated during an earth-fault trip. the contacts remain activated regardless of the removal of fault current. This relay can only be reset by pressing the "RESET" button.

5. Electrical Specification

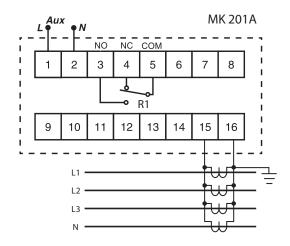
Auxiliary Supply MK201A-240A MK201A-110A Supply frequency VA rating	94~127 VAC 50Hz
Trip Contact Rated Voltage Continuous carry Expected electrical life	5A ($\cos \varphi = 1.0$)
Expected electrical life	•
Setting Ranges	
Low-set (I>)	
Low-set delay time (DELAY) High-set (I>>) High-set delay time (t>>)	0.05 sec to 1.0 sec I > to 10x I> or disable
Indicators Auxiliary supply Pick-up Trip	Red LED indicator

6. Mechanical

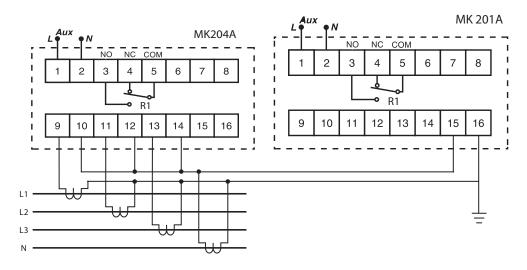
Mounting	Panel mounting
Front panel	Standard DIN 96x96 mm
Approximate weight	0.6 ka

7. Connection Diagram

a) Earth fault relay



a) Combined overcurrent and earth fault relays



8. Case Dimensions

