10. Indicators

Auxiliary supply
Time delay: Green colour LED indicator
: Red colour LED indicatorTrip: Red colour LED indicatorReal time leakage
current: Red colour LED indicator

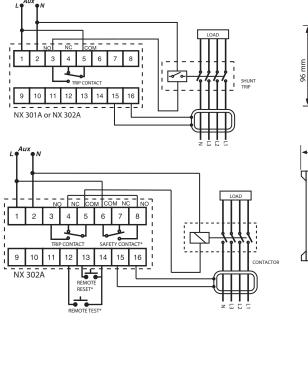
11.Zero-phase Current Transformer

To operate with ZCT series of current transformer

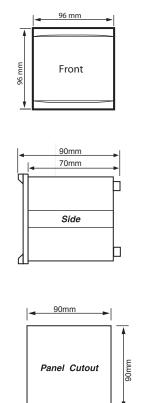
12. Mechanical

Mounting method: Panel mountingFront panel: Standard DIN96mmx96mmApproximate weight:0.6kg (exclude ZCT)

13. Connection Diagram

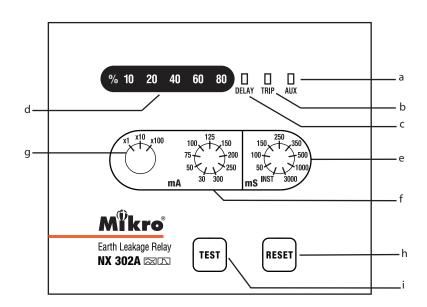


14. Case Dimensions



NX301A & NX302A Earth Leakage Relay User's Guide

A BRIEF OVERVIEW



- a Auxiliary power supply indicator
- b Trip status indicator
- c Trip start indicator
- d Leakage current indicator
- e Time delay selector
- f Sensitivity selector
- g Sensitivity multiplier switch
- h Reset button
- i Test button

TECHNICAL DATA

1. Light Indicators

The light indicators display the status of the system.

i) Status indicators

Indicator			Otatura
AUX	TRIP	DELAY	Status
Off	Off	Off	No auxiliary power supply
On	Off	Off	System normal, no tripping
On	Off	On	Trip start, time delay countdown started
On	On	Off	Earth leakage tripped
On	On	Blink	ZCT not connected

ii) Leakage indicators*

The earth leakage indicators indicate the amount of leakage current detected and are expressed as percentage of the set current.

O 10% - leakage current ≥ 10% of set current O 20% - leakage current ≥ 20% of set current ● 40% - leakage current ≥40% of set current \bigcirc 60% - leakage current ≥ 60% of set current ◎ 80% - leakage current ≥ 80% of set current

2. Sensitivity Adjustment

The NX301A/NX302A features 2 rotary selector switches for sensitivity (I∆n) settina:

- (i) 9 position sensitivity selector(f) offer setting range of 30mA, 50mA, 75mA, 100mA, 125mA, 150mA, 200mA, 250mA and 300mA.
- (ii) 3 position sensitivity multiplier selector (g) switch offer selection of 1x. 10x and 100x.

3. Tripping Delay Time Adjustment

- The 9 position time delay selector (e) provides additional delay for fault discrimination.
- Selectable delays are: Instantaneous (no delay), 50ms, 100ms, 150ms, 250ms, 350ms, 500ms, 1s and 3s.

4. Push Button

Reset Button

- The reset button is for resetting the light indicator and the latching trip contact after a trip has occured.
- · To reset, press the reset button once.

Test Button

Press the test button to simulate an earth leakage trip condition.

5. Remote Control Input*

Remote Test Input

 This digital input is similiar to the TEST push-button. To remotely test the relay, make a connection between terminals 12 and 13 of the relay

Remote Reset Input

. This digital input is to remotely reset the relay when tripped. To reset the relay, make a connection between terminals 12 and 14 of the relay.

6. Output Contact

Trip Contact

This is a latching type contact. It operates when tripped.

Safety Contact *

· Contact energized when supply is connected and the relay is functioning normally.

7. Settings

Sensitivity adjustment :0.03 A to 30 A Delay time adjustment :0 sec to 3.0 sec

8. Contacts

Contact rating

Contact material

Contact arrangement

:1 x latching type with manual reset :1 x safety contact* : NC and NO contacts available :5A, 250VAC (cos e =1) contact rating :Silver alloy Expected electrical life :100,000 operations at rated current Expected mechanical life : 5 million operations

9. Inputs

Remote Test/Reset Inputs*: N.O. dry input Auxiliary supply NX301A-240A (6) :198~265 VAC NX302A-240A (6) NX301A-110A (6) :90~120 VAC NX302A-110A (6) Rated frequency :50 or 60 Hz VA rating : 3VA typical :-15% to +0% Setting accuracy Timing accuracy :±5%

* FOR NX302A MODEL ONLY