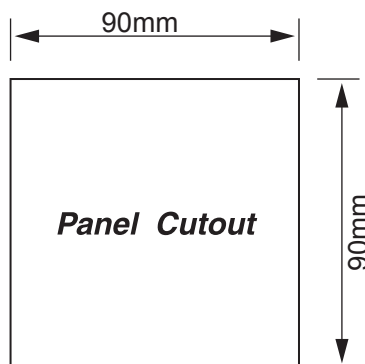
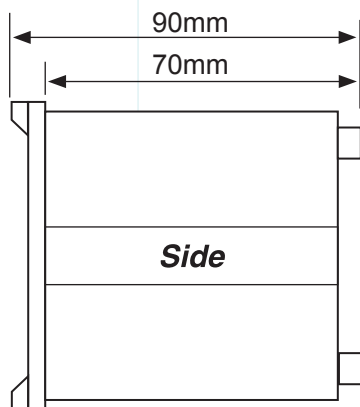
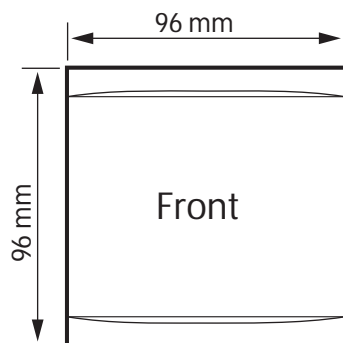
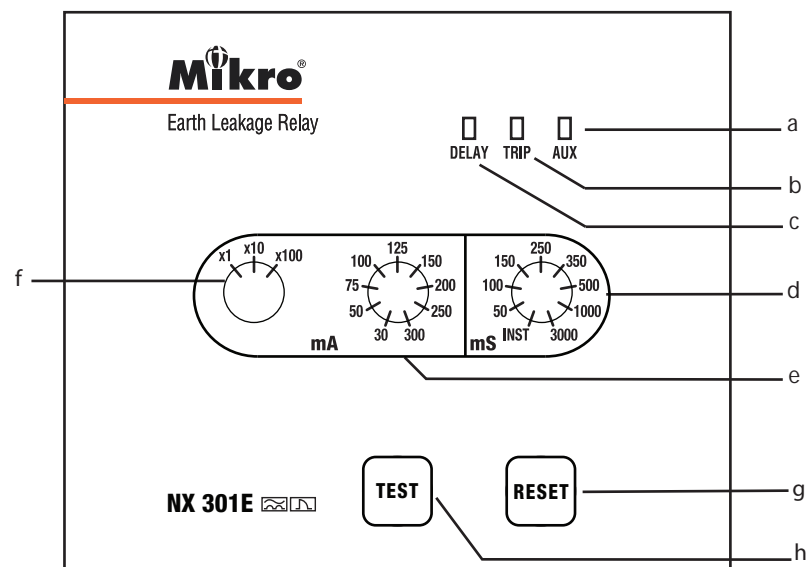


13. Case Dimensions



NX301E Earth Leakage Relay User's Guide

A BRIEF OVERVIEW



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

TECHNICAL DATA

1. Light Indicators

The light indicators display the status of the system.

Status indicators

Indicator			Status
AUX	TRIP	DELAY	
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

2. Sensitivity Adjustment

The NX301E features 2 rotary selector switches for sensitivity ($I_{\Delta n}$) setting:

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

3. Tripping Delay Time Adjustment

- The 9 position time delay selector (d) 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 occurred.
- To reset, press the reset button once.

Test Button

- Press and hold the test button for 3s to simulate an earth leakage trip condition.

5. Output Contact

Trip Contact

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

6. Settings

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

7. Contacts

Contact arrangement : 2 x latching type with manual reset
 : NC and NO contacts available
 Contact rating : 5A, 250VAC (cos ϕ =1) contact rating
 Contact material : Silver alloy
 Expected electrical life : 100,000 operations at rated current
 Expected mechanical life : 5 million operations

8. Inputs

Remote Test/Reset Inputs*: N.O. dry input
 Auxiliary supply : 198~265 VAC
 NX301E-240A(6) : 90~120 VAC
 NX301E-110A(6) : 50 or 60 Hz
 Rated frequency : 3VA typical
 VA rating : -15% to +0%
 Setting accuracy : ± 5%
 Timing accuracy

9. Indicators

Auxiliary supply : Green colour LED indicator
 Time delay : Red colour LED indicator
 Trip : Red colour LED indicator

10. Zero-phase Current Transformer

To operate with ZCT series of current transformer

11. Mechanical

Mounting method : Panel mounting
 Front panel : Standard DIN96mmx96mm
 Approximate weight : 0.6kg (exclude ZCT)

12. Connection Diagram

