

RCD Tester/ELCB Tester

Indicates Phase Rotation



CE

9221B

This Test Instrument is a **combined** 3 Phases Presence and Rotation Indicator combined with a 3 Phases Industrial Earth Leakage Tester.

When utilized as a 3 Phase Presence and Rotation Indicator, the instrument does not use the batteries and can still be utilized if the batteries are not present or if the batteries are too low.

The 3 phase Presence and Rotation Indicator which is inside the 9221B, takes it's power from the circuit under test.

The Earth Leakage can be utilized on a Single Phase (up to 317Vac Line to Earth) or a **3 Phase Powered System** (550V Line to Line or Phase to Phase) with a protective Earth conductor.

The Earth Leakage requires batteries.

When utilized on a single phase, ensure correct connection between Line and Earth before using the tester.

When utilized on a **3 Phase Powered System**, the instrument is then utilized as a 3 Phases Presence and Rotation Indicator and a Earth leakage tester (selecting which phase to Earth will be utilized for the RCD test).

When utilized on a 3 Phases Powered System, this instrument is a rotary field indication instrument which display all three phases by lighting up it's corresponding Lamp. It display the rotation (clockwise or anti-clockwise) on a LED.

To test the tripping time or the tripping current of a Earth Leakage Circuit Breaker, make sure to connect the earth wire.

This instrument represents the quickest and easiest way for servicing, repairing and electrical maintenance of 3 phase system with earth leakage.

With this equipment, you can, before connecting Load to Supply: On the supply side; Quickly verify the presence of the three Phases on a 3 Phases Power System.

Confirm the Phase Rotation on a Powered 3 Phase System.

Test the Tripping (disconnection) current and time of the protections.

FEATURES

- Indicates Phase Rotation.
- Indicates Phase Presence.
- TEST for Disconnection Sensitivity.
- Indicates Battery Status.
- TEST for Disconnection Time.
- Measure Voltage Phase to Earth.
- Select One of 3 Phase to test RCD or ELCB.
- Color Coded test Leads.
- Phase Presence Indication from as low as 100Vac.
- Works from 8 x "C" size 1.5VBattery.
- Very Low Consumption.
- Fused Earth Leakage Tester .
- Lightweight, Robust & Compact.
- ELCB Works 50Vac to 330Vac 50Hz / 60Hz.
- Led indication of Voltage on ELCB.
- Phase Rotation and Presence does not require battery to indicate.
- EN 61010-1 CAT III 550V.
EN 61326-1

SPECIFICATIONS

Determination of the Phase Presence

Nominal Voltage for Phase Presence Indication (the voltage required for the neon lamps L1, L2, L3 to lit up).....
From 100Vac to 450Vac.

Frequency RangeFrom 10Hz to 400Hz.

Determination of the Phases Rotary Field Direction:

Direction (the voltage required to have the direction LEDs L1-L2-L3 or L2-L1-L3 to indicates)..From 100 to 450Vac.

Frequency RangeFrom 2Hz to 400Hz.

Protection

Over Load.....550V(between all terminals)

Over VoltageClass III - 450V towards ground.

Earth Leakage

Current Settings 999mAac / 50Hz-60Hz

Current Selection Knob

Phase Start Selection(*) 0° and 180°

Over-Temperature Protection(*) Yes

Phase Polarity Trip Indicator(*) Yes

Operating Voltage (L-E) 110Vac to 317Vac

(*)Referenced to Earth

Timer Resolution 1ms(Max Time = 99.99s)

Timer Accuracy 1ms ± 4ms

Current Accuracy ±3% ± 4mA

Current Resolution 1mA

Voltmeter Accuracy (50Hz) 50-350 Vac = ± 3%±2V

350-550Vac = ± 7%±3V

Voltmeter Resolution 1V

Maximum Current Specified at 317Vac / 50Hz

Batteries 1.5V "C" x 8

Bat OK Led = Vbat >9V

Dimensions: 330(L) x 260(W) x 160(D)mm

Weight: 3.85 kg(battery included)

Operating temperature Range: -15°C to +55°C

Storage Temperature: -20°C to +70°C