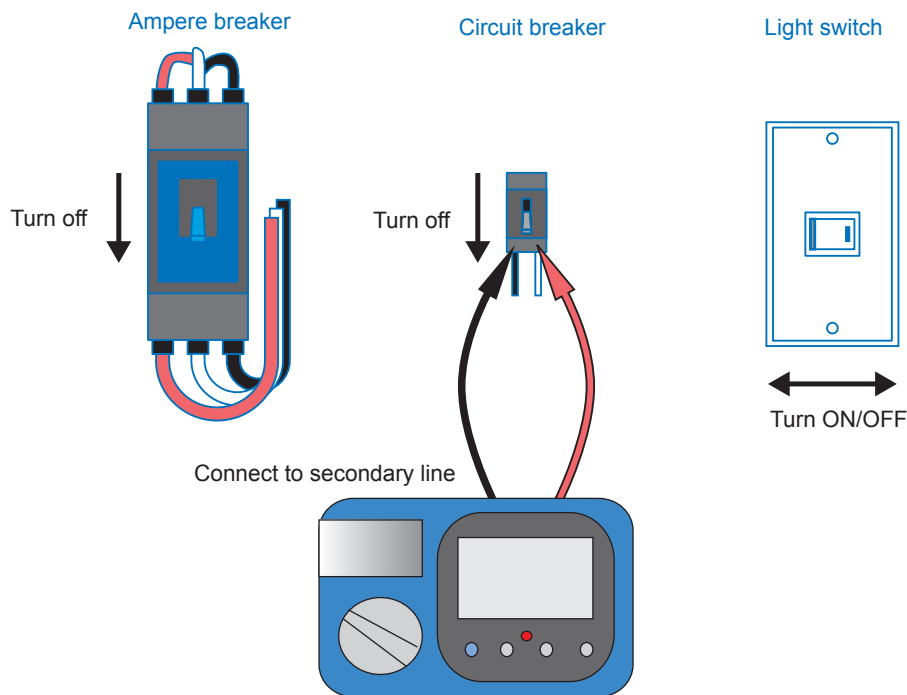


How to Properly Test Light Switches

Use a robust insulation resistance tester to check whether light switches are connected correctly.

■ Highlights

- Once the light installation work is finished, check the insulation state of the light line before turning on the light.
- Check the line from the light switch to the light for proper insulation in order to prevent fire hazards.



INSULATION TESTER / ANALOG MΩ HITESTER

- * Turn off the ampere breaker and the circuit breaker for the light line.
- * Connect the insulation resistance tester to the circuit breaker.
- * Output an appropriate test voltage (which varies depending on the supply voltage).
- * Check that the insulation state is good at the time the light switch is off.
- * Turn on the light switch and check that the resistance value approaches zero (by the load resistance of the light).
- * A low resistance value at the time the light switch is OFF indicates an insulation failure. The likely cause is a connection failure.
- * A high resistance value at the time the light switch is ON indicates the possibility of a connection failure.

Products used



IR4057-20

Select depending on measurement voltage.

- INSULATION TESTER IR4057-20 (50V/125V/250V/500V/1000V)
- INSULATION TESTER IR4056-20 (50V/125V/250V/500V/1000V)
- ANALOG MΩ HITESTER IR4016-20 (500V)
- ANALOG MΩ HITESTER IR4017-20 (500V)