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Operating Instructions

The "Santronics AC Sensor" is a patented, hand held device for determining the presence or absence of AC voltage in insulated wires, wall receptacles, fuses, junction boxes, switches, and any other voltage carrying electrical systems. It is not necessary to disconnect the system in question, because no contact is required for operation, and current flow is not necessary to locate voltage. Simply touch the plastic tip to a connection point or move it along an insulated wire. If AC voltage is present, the LED light in the probe tip will glow bright red. The illumination will stop at a break in the circuit or wire and this allows the AC Sensor to be used as a troubleshooting instrument.

Illustrations / Ilustraciones

Why Probe Tip Flickers

This instrument is so reliable in locating voltage that it will react to static electricity by flickering. This is not to be confused with power company voltage which produces a steady glow.

Caution 1

Prior to each use, as a safety practice, always test the instrument on a known live circuit, to ensure proper operation and always treat your AC Sensor with care as you would any other test instrument.

Caution 2

In testing indoor romex cable where the fibrous filler becomes saturated with water, which is conductive, an electrical connection is formed between the filler and the ground circuit. The length of cable that has become wet is essentially shielded. If a voltage is present on a conductor in this cable, the electric field normally radiated by the conductor in this cable, the electric field normally radiated by the voltage will be attenuated by this shielding and the AC Sensor may not glow even though a voltage is present. Therefore, always approach wet indoor romex cable with utmost caution.

All sensors of this type will exhibit the same characteristics when testing wet indoor romex.

Porqué el Extremo de Prueba Títila

Este instrumento es tan confiable localizando el voltaje que reaccionará a la energía eléctrica existente por un títul. Esto no puede ser confundido con el voltaje de corriente alterna que genera un brillo estable.

Precaución 1

Anterior a cada uso, como una medida de precaución, siempre pruebe el instrumento en un circuito conocido para asegurar su correcta operación y siempre trate con cuidado el sensor de corriente alterna como si fuera otro instrumento de prueba.

Precaución 2

En la prueba de un cable romex de interiores donde el relleno de fibra se sature con agua, que es conductiva, una conexión eléctrica es formada entre el relleno y el circuito de polo a tierra. La longitud del cable que se moje está esencialmente protegida. Si un voltaje está presente en el conducto del cable, el campo eléctrico normalmente radiante por el voltaje será atenuado por este campo y el sensor AC puede no brillar, así un voltaje está presente. Por lo tanto, siempre apóyese a un cable romex de interiores con extremada precaución.

Cables de este tipo son especificados para interiores solamente. Está sujeto a inmersión en agua solo en condiciones extremas como inundaciones. El cable romex de exteriores no es afectado por el agua.

Todos los sensores de este tipo pueden exhibir las mismas características cuando son probados con cables romex de interiores mojados.

Santronics • P.O. BOX 192 • Sanford, N.C. 27331

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Santronics AC Sensor

Type: Non-Contact Voltage Sensor
Operating Range: 50-1000 Volts AC
Requires No Switch
CAT III (UL), CAT IV (TUV)

All surfaces are totally non-conductive for operator safety.

Outer Surface: Non-conductive body, probe and cap composed of injected molded high-impact nonflammable polycarbonate, with dielectric of 220 Volts AC potential at 60 Hertz

Operating Voltage: 50-1000 Volts AC

Batteries: 2 (two) replaceable AAA Alkaline batteries included

Operating Temperature: -20°C to +55°C

Circuit Board: Surface mounted components on FR-4 substrate

Light Source: One high-intensity LED for maximum illumination

Weight: 39.7 grams with batteries

Dimensions: 5.75” in length; .75” in diameter

Breakdown Voltage: 4000+ Volts AC

Interior Conductor Strip: Brass strip approximately 4.75” in length

Operating Principle: This instrument senses an electrical field produced by AC voltage, through insulation and without touching the conductor. A constant bright red glow at the tip of the sensor will indicate the presence of voltage.

Printing: High adhesion pad printing for maximum resolution and definition.

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