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HIGH VOLTAGE DETECTOR

276 HD/ 276SHD

INTRODUCTION

These models detect the presence of voltage in AC lines. An elongated insulation rod permits checking of high tension circuits for voltage at a safe distance. The instruments are compact, lightweight and easy to handle and are also available for voltage detection in low-tension circuits.

FEATURES

- **Telescopic, compact, light-weight**
  276HD: Lenght: From 354 mm to 1005mm, Weight: Approx. 185g
  276SHD: Length: From 230mm to 880mm, Weight: Approx. 155g.
  They are easy to handle and handy to carry
- **High-voltage detectable**
  The equipment, whether in stretched state is available for voltage detection in high-tension (3.3kV, 6.6kV and 24kV) whether the wires involved are naked or insulated
- **Low-voltage detectable**
  The equipment can be used for voltage detection in low-tension circuits (80V ~ 600V) by holding the nameplate portion of the detecting head. Before use check, can easily be done by plugging in an AC 100V plug socket, without using a tester
- **Easy to recognize indication**
  Intermittent lighting in red of a high intensity light-emitting diode and intermittent audible sound of an electronic buzzer are readly recognizable at a full daylight, noisy location
- **Water proof**
  The detecting head, being tightly enclosed, is free from any trouble due to dust, water or the like.
- Meets EN61010-1, EN5008-1, EN55082-1, EN55022, EN61000-4-2, EN61000-4-3
- **Construction :**
  Waterproof (Detecting head impervious to water)
- **Insulation resistance :**
  Measure the insulation resistance with the high voltage insulation tester.
  The areas we measure are the same as Dielectric strength test.
  (a) Between Sensing tip ~ Grip portion : 1kV
  (The detector has to be stretched)
  The insulation resistance has to be more than 2000 MΩ
  (b) Between Sensing tip ~ Nameplate portion : 1kV
  The insulation resistance has to be more than 2000 MΩ.
- **Leakage Current Test :**
  Put high voltage on the parts listed below :
  (a) Between Sensing tip ~ Grip portion : 50kV AC, 1 min
  (The detector has to be stretched)
  The leakage current has to be 100 uA or less than 100 uA.
  (b) Between Sensing tip ~ Nameplate portion : 4kV AC, 1 min.
  The lekage current has to be 100 uA or less than 100 uA
- **Working temperature range :** -10ºC ~ + 50ºC
- **Battery :** 2 button-cells LR44 (1.5V)

RATINGS AND SPECIFICATIONS

- **Working Voltage Range:**
  H.V.: 3kV~24kV AC... hold grip portion to detect
  L.V. : 80V~600V AC... hold nameplate portion to detect
- **Frequency :** 50 Hz / 60 Hz
- **Operation Test : (Initial voltage)**
  (a) When stretched, hold the grip portion. Put the sensing tip in contact with the voltage : 250V, AC ± 50V the LED and buzzer should work.
  (b) When retracted, hold the nameplate portion. Put the sensing tip in contact with the voltage : 80V, AC or below the LED and buzzer should work.
- **Operation start distance :**
  Distance at which operation starts when front metal is brought near ϕ 5mm O.C. wire with grip portion held by hand.
  Where 24kV / ϕ3mm (voltage to ground)... abt 20 cm
  Where 6.6kV / ϕ3mm (voltage to ground)... abt 3 cm
  Where 3.3kV / ϕ3mm (voltage to ground)... abt 1 cm
- **Dielectric Strength :**
  (a) Between Sensing tip ~ Grip portion : 50kV AC, 1 min (The detector has to be stretched)
  (b) Between Sensing tip ~ Nameplate portion : 4kV AC, 1 min.

*Technical Specifications & Appearance are subject to change without prior notice