

**KUSAM-MECO**<sup>®</sup>

An ISO 9001:2008 Company

# HIGH VOLTAGE DETECTOR

The detector detects the presence of voltage from 80V ~ 600V & 3KV ~ 24KV in AC lines. An elongated insulation rod permits checking of high tension circuits at safe distance for voltage. The equipment is compact, light weight, and easy to handle, and is also available for voltage detection in low-tension circuits.

**Model 276HD : L.V. : 80V ~ 600V AC ;  
H.V. : 3kV ~ 24kV AC**

## SPECIAL FEATURES :

- Telescopic, Compact, light-weight and handy.
- High-voltage detection : The equipment, when in stretched state is available for voltage detection in high-tension circuits (3.3kV, 6.6kV & 24KV) whether the wires involved are naked or insulated.
- Low Voltage detection : 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 readily recognizable in full daylight, noisy location.
- Water proof : The detecting head, being tightly enclosed, is free from any trouble due to dust, dirt, water.

## 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 / 60Hz
- \* **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 5mm O. C. Wire with grip portion held by hand.  
Where 24 kV / 3mm (voltage to ground) @ 20 cm  
Where 6.6 kV / 3mm (voltage to ground) @ 3 cm  
Where 3.3 kV / 3mm (voltage to ground) @ 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.
- \* **Construction** : Waterproof (detecting head impervious to water).
- \* **Insulation resistance** :
  - (a) Between Sensing tip ~ Grip portion : (The detector has to be stretched)  
The insulation resistance is more than 2000M @1KV.
  - (b) Between Sensing tip ~ Nameplate portion :  
The insulation resistance is more than 2000M @1KV.
- \* **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 A or less than 100 A.
  - (b) Between Sensing tip ~ Nameplate portion : 4kV AC, 1 min.  
The leakage current has to be 100 A or less than 100 A.
- \* **Working Temperature Range** : -10°C ~ +50°C
- \* **Battery** : 3 button-cells LR44 (1.5V)
- \* **Dimension** : 354mm to 1005mm length
- \* **Weight** : Approx. 185g.



## SAFETY :

- Meets EN61010-1 EN50081-1 EN55082-1  
EN55022 EN61000-4-2 EN61000-4-3

## ACCESSORIES :

Instruction manual & Carrying Case.

**All Specifications are subject to change without prior notice**

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