

# High Voltage Detector

CE

**276S HD****276 HD**

The 276 HD and 276S HD detect the presence of voltage in AC lines. An elongate insulation rod permits checking of high tension circuits at safe distance for voltage. The equipment is compact, lightweight, and easy to handle, and is also available for voltage detection in low-tension circuits.

## FEATURES

- Telescopic, compact, lightweight.
- High voltage detection.
- Low voltage detection.
- Self test button feature.
- Easy-to-recognize indication.
- Waterproof.

## SPECIFICATIONS

|                                    | 276S HD   | 276 HD    |
|------------------------------------|---|-----------|
| Sections                           | 7   | 4         |
| Operating temperature and humidity | 0°C~40°C Max: 80%   |           |
| Retracted length                   | 255±30mm  | 354±30mm  |
| Extended length                    | 870±30mm  | 1010±30mm |
| Weight (battery included)          | 150g  | 180g      |
| Power source                       | CR 2032 (3V) × 1  |           |
| Safety standards                   | EN 61010-1 EN 50081-1<br>EN 50082-1 EN 55022<br>EN 61000-4-2 EN 61000-4-3 |           |

### • Working voltage range:

H.V. : 3kV~24kV AC....hold grip portion to detect.

L.V. : 80V~600V AC....hold nameplate portion to detect.

### • Frequency : 50Hz / 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 :  
80VAC or below the LED and buzzer should work.

### • Operation start distance

Distance at which operation starts when front metal is brought near Ø5mm O.C. wire with grip portion held by hand.

Where  $24kV / \sqrt{3}$  (voltage to ground)....about 20cm.

Where  $6.6kV / \sqrt{3}$  (voltage to ground)....about 3cm.

Where  $3.3kV / \sqrt{3}$  (voltage to ground)....about 1cm.

### • Dielectric Strength:

(a)Between sensing tip ~ grip portion : 50kV AC,1min  
(The detector has to be stretched)

(b)Between sensing tip ~ nameplate portion : 4kV AC,1min.

### • 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 2000MΩ.

(b)Between sensing tip ~ nameplate portion : 1kV  
The insulation resistance has to be more than 2000MΩ.

### • 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 100uA or less than 100uA.

(b)Between sensing tip ~ nameplate portion : 4kV AC,1min.

The leakage current has to be 100uA or less than 100uA.



**CAC-276S**  
(For 276S HD)

**CAC-276**  
(For 276 HD)