Models: 276 HD and 276S HD

High Voltage Detectors

276 HD

276S HD

The 276 HD and 276S HD detect the presence of voltage in AC lines. Elongated insulation rods permit checking high-tension circuits from a safe working distance. The units are compact, lightweight, and easy to handle. They are also capable of voltage detection in low-tension circuits.

Features

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

Specifications

	276 HD	276S HD
Sections	7	4
Working voltage	H.V. : 3kV~24kV AC L.V. : 80V~600V AC	
Frequency	50/60Hz	
Operating temperature and humidity	0°C~40°C Max: 80%	
Retracted length	255±30mm	354±30mm
Extended length	870±30mm	1010±30mm
Weigh (battery included)	150g	180g
Power source	CR 2032 (3V) × 1	
Safety standards	EN 61326-1	

- **Working Voltage Range:**
H.V. : 3kV~24kV AC....hold grip portion to detect.
L.V. : 80V~600V AC....hold nameplate portion to detect.

- **Operational Test: (Initial voltage)**
(a) When extended, hold the grip portion.
Put the sensing tip in contact with the voltage (250V AC ± 50V).
The LED and buzzer should operate.
(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 operate.

- **Operation Start Distance:**
Distance at which operation starts when front metal is brought near Ø5mm O.C. wire with grip portion meld by hand.
Where 24kV / √3 (voltage to ground)....about 20cm.
Where 6.6kV / √3 (voltage to ground)....about 3cm.
Where 3.3kV / √3 (voltage to ground)....about 1cm.

- **Dielectric Strength:**
(a) Between sensing tip and grip portion: 50kV AC 1 min.
(The detector must be extended.)
(b) Between sensing tip and nameplate portion: 4kV AC, 1 min

- **Construction:** Waterproof (detecting head impervious to water).

- **Insulation Resistance:**
Measure the insulation resistance with the high voltage insulation tester.
The areas measured are the same as in the dielectric strength test.
(a) Between sensing tip and grip portion: 1kV.
The insulation resistance must be more than 2000MΩ.
(The detector must be extended.)
(b) Between sensing tip and nameplate portion: 1kV.
The insulation resistance must be more than 2000MΩ

- **Leakage Current Test:**
Apply high voltage to the parts listed below.
(a) Between sensing tip and grip portion: 50kV AC, 1 min.
The leakage current must be 100uA or less.
(The detector must be extended.)
(b) Between sensing tip and nameplate portion: 4kV AC, 1 min.
The leakage current must be 100uA or less

CAC-276
for 276 HD

CAC-279
for 276S HD

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