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High Voltage Proximity Detector

CE

275 HP

The 275 HP is a high voltage proximity detector. It has eight voltage detection settings from 240Vac to 275kVac. The 275 HP consists of an internal pickup sensor plate, a sensitivity selector, and both visual and audio annunciators. Physical contact with electrical conductors is not necessary when testing for live lines since the 275 HP has a proximity sensor. It senses the radiated field which surrounds live conductors. Radiated field strength increases with voltage and decreases quickly with distance or earth shielding. (See “Limitations of use” paragraph in the instruction manual). Detecting distance of a 250Vac single live wire is approximately 10cm. With a bunched neutral and earth cable, as in a flexible cable, the distance is reduced to 5cm.

Some typical uses of the 275 HP are: identifying and checking live cables, finding faults in flexible cables, tracing live wires, checking high frequency radiation, and detecting residual or induced voltages. For example, faults in damaged flexible cables are found by applying low voltage to each conductor, earthing the remainder, and moving the tester along the cable until a change in condition is obtained. (Flexible cables which are used in mining and building industries, are readily repairable when the break in the cable is located.)

When testing for high voltage, the rotary switch (attenuator) is used to identify and differentiate various H.V. live cables. The detector must be used in conjunction with a long insulated rod when measuring high voltage (kV). The 275 HP is a non-contact proximity tester only, and should never come into contact with live high voltage wires.

Checking or proofing the tester is easy. Switching the sensitivity to 240V and placing the dome against a low voltage live conductor, or rubbing the dome with a cloth or an item of clothing, generates a static DC which triggers the detection circuit. The light and beeper should go “on” as if a live wire is being detected.

FEATURES

- **Protection class: IP65**
- 8 voltage settings: 240Vac, 2kV, 6kV, 11kV, 22kV, 33kV, 132kV, and 275kV
- Bright LED visual indication
- Frequency range: 40~70Hz
- Audio indication
- Easy-to-prove method
- Self-test selection
- Uses 1.5V “C” × 3 battery
- High impact nylon casing
- Non-contact detection by proximity
- Compatible with most link sticks
- Lightweight, robust, & compact
- Suitable for indoor and outdoor use
- Also detects low voltage on any system
- Easy access to batteries
- No special parts needed
- Case height: 255mm / Case width: 96mm
- Meets EN 61326-1 CISPR 11
  EN 61000-4-2 EN 61000-4-3
- United States Design Patent: US D474, 705 S
- **Special voltage ranges available upon request**
- **The maximum detection range can be 500kV**

Expected test results (Laboratory testing):

Range	Operated from
240V	Variable from 80V or depending on the type of source
2kV	250V
6kV	500V
11kV	1000V
22kV	1500V
33kV	4000V
132kV	8000V
275kV	22kV

TOC-275

MODELS LIST

Model Code	Range
275kV01	OFF--TEST--240V--2kV--6kV--11kV--22kV--33kV--132kV--275kV
275kV02	OFF--TEST--240V--3.3kV--6.6kV--11kV--22kV--33kV--66kV--132kV--275kV
275kV03	OFF--TEST--240V--11kV--22kV--33kV--66kV--110kV--132kV--210kV--275kV
275kV04	OFF--TEST--240V--2.3kV--6kV--11kV--22kV--33kV--132kV--275kV
275kV05	OFF--TEST--240V--2kV--6kV--11kV--22kV--33kV--132kV--230kV--275kV
500kV01	OFF--TEST--240V--3.3kV--11kV--22kV--33kV--66kV--110kV--220kV--330kV--500kV
500kV02	OFF--TEST--240V--4.2kV--15kV--69kV--115kV--230kV--345kV--500kV
500kV03	OFF--TEST--240V--69kV--115kV--138kV--230kV--500kV
500kV04	OFF--TEST--230V--3kV--6kV--10kV--35kV--66kV--110kV--220kV--330kV--500kV
500kV05	OFF--TEST--240V--4.2kV--35kV--69kV--115kV--230kV--345kV--500kV
500kV06	OFF--TEST--400V--15kV--24kV--110kV--220kV--500kV
500kV07	OFF--TEST--240V--4.2kV--15kV--69kV--138kV--230kV--345kV--500kV
230kV01	OFF--TEST--240V--69kV--115kV--138kV--230kV
230kV02	OFF--TEST--240V--4.2kV--15kV--25kV--35kV--69kV--115kV--230kV
220kV01	OFF--TEST--240V--3.3kV--6.6kV--11kV--22kV--33kV--66kV--110kV--220kV
220kV02	OFF--TEST--0.22kV--6kV--10kV--35kV--110kV--220kV
220kV03	OFF--TEST--1kV--3.3kV--6.6kV--11kV--22kV--33kV--66kV--132kV--220kV
220kV04	OFF--TEST--240V--11kV--33kV--132kV--220kV
33kV01	OFF--TEST--33kV
11kV01	OFF--TEST--11kV
115kV01	OFF--TEST--240V--11kV--15kV--34.5kV--69kV--115kV