

交流電壓感知器

PERSONAL SAFETY VOLTAGE DETECTOR

用途

288 SVD是感知交流電壓的一種儀器。它提供給電機工程人員、電力工程人員、消防人員及儀器設備工作人員，在接近高電壓時，獲得警示，進而採取必要的安全行動，以保障人身安全。

配戴288 SVD人員，接近高電壓時，儀表即自動偵測，感知結果，蜂鳴器發出嗶-嗶-嗶斷續聲音，同時LED也產生亮光閃滅。從聲音和亮光的警示，提醒使用者已接近高壓電，要特別注意安全。

特點

- 僅適用於交流電壓。
- 室內室外均可使用。
- 作防水設計。
- 具自我測試功能。
- 高亮度的LED閃示。
- 響亮的聲音警示。
- 體積小、質輕、堅固耐用。
- 聲音和亮光隨不同感知狀況作不同警示。
- 可感知各種交流電壓系統。
- 配戴方便，使用容易。
- 有電源不足指示。
- 耗電量低，可作長時間使用。
- 通過歐規安全檢驗，CE標示。

規格

| | |
|--------|---------------------------------|
| 尺寸 | 115(長) x 67(寬) x 30(高)mm |
| 重量 | 約145公克(含電池) |
| 適用頻率 | 40 ~ 70Hz |
| 使用電源 | DC 9V電池一個 |
| 操作環境 | -15°C ~ +55°C 最大相對濕度90% |
| 開始警告距離 | 2.5kV : 約108公分 10kV : 約160公分 |

使用方法

1. 作自我測試：雙手壓下雙橡膠按鍵，蜂鳴器嗶-嗶-嗶，LED閃亮，確定本表正常。
2. 將本表正面接近220V交流電源約2公分，蜂鳴器嗶-嗶-嗶，LED閃亮，再次確認本表正常。
3. 依右圖示說明，配戴本表。
4. 若蜂鳴器聲音變小，應即更換電池。



- 配戴於工作服或安全帽上，正面朝外，不能有遮蔽物。
- 可依工作型態或習慣，配掛於手臂、胸前口袋、皮帶上或利用吊帶懸掛於胸前。

注意事項

1. 開始警告距離會稍受電源的位置和操作環境而影響。
2. 本表不可重摔和碰撞。若不意摔碰，應先作自我測試後再使用。
3. 不宜長期置於屋外或汽車內，避免曝曬和高溫。
4. 本表僅供輔助驗電器使用，旨在工程作業人員獲得警示，多一重保障。不可以本表代替驗電器，仍應以驗電器作為主要的測電儀器。

HIGH VOLTAGE PROXIMITY DETECTOR



CE

288SVD

FEATURES

- Warning Proximity of AC Voltage (240V~50kV).
- Water Proof (sealed to Ip65).
- Easy to wear on Body, Belt, Helmet.
- Ultra High bright LED indication.
- High Pitch Sound indication.
- Test & Diagnostic Circuitry.
- Friendly Priority Alert Reporting.
- Circuit Test Function.
- High impact type casing.
- Different Alerting Sound & Light.
- Can be adapted to Sunrise (stick).



The Body-Prox 288SVD is a **Personal Safety Voltage Proximity Detector**.

It is a designed to alert the user that they are approaching live equipment where dangerous voltage is present.

The Body-Prox tells the user to stay at a safe distance from live equipments, therefore it protect and safeguard people from approaching dangerous Live High Voltage equipment or cable. **Live Alert** is shown by a ultra bright LED on the front panel and heard via a **Buzzer**.

When Live equipment is detected near the user's body, the user will be alerted of the PROXIMITY OF LIVE equipment by the AUDIO ALERT (beeping) and the VISUAL ALERT (LED flashing) wice per second.

The 288SVD is an ultra low consumption product and can be used for months without replacing the 9V battery. It can be tested by pressing both front panel buttons to proof the tester is working properly.

Should the battery become too low, a low battery indication will beep the buzzer and lit the led shortly every 5 seconds.

The Body-Prox is water proof and can be used in all weathers. It has no voltage selection and the user does not need to know how to operate complicated test equipment. It is designed to be simple to use. It only require to proof it's good working condition. This is done by simply depressing the two push buttons situated on the front panel.

A very easy to understand "Priority Alert" Reporting System (Audio and Visual) let the user know if an ac signal has been detected in the proximity (Buzzer and Red Light, BOTH "operates shortly twice per second").

Body-Prox, alert if battery is Low (Buzzer and Red LED, BOTH "operates shortly every 5 seconds) per second".

- Removable neck belt.
- Suitable for indoor and outdoor use.
- Detect voltage on any systems.
- Low Battery Indication.
- All OK test indication.
- Ultra low power consumption.
- Meets EN61326 EN55011 EN61000-3-2 EN61000-3-3 EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6 EN61000-4-11

Body-Prox **FACTS & TIPS**

- Worn on the outside of clothing facing the direction of movement.
- Safety Warning for Utility, Industrial or Rescue Personal.
- Clip to Belt, Pocket, Safety Helmet or any other safety gear.
- Worn around the neck using the removable neck lace/strap.
- Rugged for outdoor use.
- All Circuit integrity Test Buttons.
- Small and Light in weight.
- Never Sleeps - It is always "ON" and ready to warn you of danger.
- Alerted before touching.
- Detect the presence of High Voltage in the vicinity.
- Body-Prox is a necessary tool for the protection of human life.
- Used by non electrical employees which must work around HV or in an environment unknown to them.
- Does not require any knowledge of electricity to use.

GENERAL DESCRIPTION

The **288SVD** consist of an internal pickup AC sensor plate, a test (oscillator) and diagnostic circuit, an adjustable threshold comparator, a sound annunciator (buzzer), a visual indicator (super high bright led) and a 9V battery, all enclosed into the robust "beeper" style case. The enclosure has a built-in clip to be able to be attached on the outer garments / external clothing or belt.

PRINCIPLE OF HOW IT WORK

The **288SVD** detects AC voltages using it's internal AC sensor plate. The AC sensor plate pick up part of the radiated electric field in volts per meter (V/M).

The electric field is amplified and processed by the internal circuitry and once the processed signal is above the threshold, triggers the input of a integrated circuit, which start the oscillator for the buzzer and led. The Buzzer beeps and Led lit intermittently at a rate of 2 beeps/flash per second. The "Self-test" diagnostic is actioned by depressing simultaneously both push button on the front panel. The battery monitoring is always ON. Please see the priority of alert on the front panel.

It is recommended that when the 288SVD is used in HV yards of mixed voltages: In the presence of mixed voltages, it could become difficult to determine exactly which source has been detected or which source created the alert. Always treat all sources as LIVE.



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