

非接觸式檢相計

Non-Contact PHASE DETECTOR



890PR是非接觸式安全性高的檢相計，一般的接觸式檢相計，它的鱷魚夾必須夾住三相電源的裸銅端子，如一不小心，操作者容易感電，受到傷害。而890PR是利用靜電感應原理，鱷魚夾只要夾住有絕緣被護的電線的外緣，即可進行檢測三相電源，藉著LED閃亮和蜂鳴器的響應，即可檢測三相接電的狀況。

電氣規格(23°C±5°C ≤80%RH)

量測原理	靜電感應
輸入電壓	75~1000VAC(交流電壓)
頻率範圍	45~65Hz
自動關機	約五分鐘(解除測試後)
LED開始閃爍動作	4.6 ± 0.1V或稍低
耗電流	15mA
操作溫度	-10°C~50°C 最大相對溼度80%
儲存溫度	-20°C~60°C 最大相對溼度80%
使用電源	1.5V(AA)乾電池X4(顆) 或鹼性電池
外形尺寸	118(長)X69(寬)x38(高) mm
測試線長度	約80公分
重量(含電池)	約370克
附件	說明書X1(本) 軟袋X1(個) 電池X4(顆)

特點

1. 890PR是非接觸式量測的檢相計，它藉由LED的顯示和蜂鳴器的聲音，來查驗三相交流電壓系統的狀況。
2. 具有檢測相位和相序的雙重功能。
3. 自動關機功能(約五分鐘)。
4. 鱷魚夾上有顏色貼紙區分，由於採用不接觸裸銅檢測，只要將鱷魚夾夾住電源線外部即可檢測，因此安全度高。
5. 具有超亮設計，可在強光下或昏暗處辨識檢測狀況。
6. 儀表背面附有四顆強力磁鐵，可懸掛於配電箱外殼，方便操作人員使用。
7. 應用電壓及頻率寬廣，分別為75V~1000V交流電壓45~65Hz。
8. 通過歐洲安全規範驗證：
EN61010-1 CAT III 1000V/CAT IV 600V
EN61326-1

檢視電線(相位)狀況

狀 態	LED顯示
缺 相	電源開路該相LED不亮
不 缺 相	L1, L2, L3 LED全亮
沒有接地線 (三角配電系統)	LED全不亮
有夾到接地線 (三角配電系統)	LED閃亮
順 相 (正 相)	CW LED亮 周圍三顆LED順時鐘方向循環 依次亮 蜂鳴器Bi-Bi-Bi響應
逆 相 (反 相)	CCW LED亮 周圍三顆LED逆時鐘方向循環 依次亮 蜂鳴器Bi ——— 響應

※在陽光下或昏暗處，不易識別LED閃亮的狀況下，請按下超亮按鍵，將可獲得理想的辨識效果。



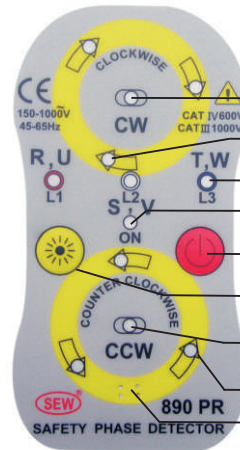
STANDARD

Model : 890 PR

Non-Contact PHASE DETECTOR



INSTRUMENT LAYOUT



- Phase sequence LED (Forward)
- Rotation LED
- Live LED
- Power LED
- Power switch
- Brightness switch
- Phase sequence LED (Reverse)
- Rotation LED
- Buzzer

FEATURES

- The 890 PR is a Non-Contact phase detector with flashing LEDs and a beeping buzzer to show the detection of AC 3-phase sequence.
- Two functions in one unit, including open phase and phase sequence.
- Clipping the right 3-phase lines(up to color) over the jacket with non-contact sensor clips which promote safety of measurement.
- Brightness switch is convenient to make the indication visible in dim areas or sunlight.
- Back cover magnet fix the instrument onto the AC distribution panel offer easy measurement.
- 3-Phase AC 75 to 1000V is fitted for detection.
- Detect frequency range is from 45 to 65 Hz.
- Safety standard : EN 61010-1 CAT III 1000V/ CAT IV 600V. EN 61326-1

SPECIFICATIONS

Measurement Principle	Static induction
Input Voltage	75~1000Vac
Frequency Range	45-65Hz
Auto-Off	5 min. after power on without detection
Low Battery Warning	Power LED flashes at 4.6 ±0.1V or less
Operating Temperature & Humidity	-10°C~50°C Max. 80% R.H.
Storage temperature & Humidity	-20°C~60°C Max. 80% R.H.
Power Source	1.5V(AA) x 4 or alkaline battery
Dimensions	118(L) x 69(W) x 38(H)mm
Cable Length	Approx. 800mm
Weight	Approx. 370g (battery included)
Accessories	Instruction manual Soft case Battery

LIVE WIRE CHECK

State	Indication
Live	Phase with L1,L2,L3 "ON" is live state
Missing line of Earth line	LED doesn't light up for missing line of earth line
Earth line (Delta connection)	Phase with flashing LED is an earth phase
Positive phase	When the Green Rotation LED flashes in clockwise direction orderly as indicated with "arrow" mark, the circuit will be forward under test. The buzzer sounds intermittently.
Reversed phase	When the Red Rotation LED flashes in anti-clockwise direction orderly as indicated with "arrow" mark, the circuit will be reverse under test. The buzzer sounds continuously.
Detect	L1,L2,L3 LED ON is live phase indication. Open phase which LED is off.
Indications	CW ON is correct phase sequence.
	CCW ON is incorrect phase sequence.



STANDARD ELECTRIC WORKS CO., LTD.

5F., NO.105, Jhongcheng Rd., Tucheng Dist.,
New Taipei City 23674, Taiwan (R.O.C.)

TEL : 886-2-22681528 FAX : 886-2-22681529

<http://www.sew.com.tw> e-mail: sales@sew.com.tw <http://www.sew.com.tw>