



EK-A186A/A186AC Wrist-type High/Low Voltage Approach Electric Alarm



Product Function

After the operator wears the alarm, when approaching a high voltage live part at a certain distance, the alarm will emit sound and light alarm according to the safety distance corresponding to the voltage level, reminding electrical workers to pay attention to safety and avoid high voltage electric shock accidents. This product can also be used for line fault detection and as a voltage detector.

Product Features

1. The alarm is worn on the operator's wrist, detects the electric field in the air in all directions, with high sensitivity.
2. No need to power on – when the induced electric field exceeds the threshold, the alarm automatically triggers the alarm function, ensuring the safety of near-electric workers.
3. Adopts non-contact induction and low power consumption technology, power-saving and durable, with standby time up to 12 months.

Technical Specification

1. Voltage Level & Alarm Distance

Product Model	EK-A186A										EK-A186AC				
Voltage Level	0.4kV	1kV	6.6kV	10kV	35kV	66kV	110kV	220kV	330kV	500kV	40V	110V	220V	600V	1kV
Safety Distance	/	/	/	0.70m	1.00m	1.50m	1.50m	3.00m	4.00m	5.00m	/	/	/	/	/
Alarm Distance	0.02m	0.10m	0.70m	1.00m	1.60m	2.20m	2.50m	3.50m	4.50m	5.50m	5cm	10cm	15cm	40cm	60cm

Note:

- 1) Safety distance is based on "GB 26859-2011 Safety Code for Electric Power Work - Power Lines".
- 2) Alarm distance error: $\pm 10\text{cm}$ ($23^{\circ}\text{C} \pm 1^{\circ}\text{C}$, 80%RH, reference conditions). Under changing environmental conditions (such as field temperature and humidity, presence of metal components, object blocking, etc.), the alarm distance error will increase accordingly.

2. Technical Parameters

Power Supply	CR1632 (140mAh) button cell $\times$ 1														
Alarm Voltage Range	EK-A186A: 0.4kV~500kV (high voltage alarm); EK-A186AC: 40V~1kV (low voltage alarm)														
Operating Frequency	50Hz/60Hz														
Voltage Detection Method	Non-contact														
Detection Mode	Automatic trigger														
Battery Life	Continuous operation (sound/light alarm) approx. 24 hours; Standby: approx. 12 months														
Alarm Mode	Indicator: LED visible under 8000LX visible light Buzzer: 60dB or above (at 60cm)														
Meter Dimensions	52mm $\times$ 30mm $\times$ 15mm (excluding wrist strap)														
Meter Weight	Approx. 0.06kg (including accessories)														
Operating Temperature & Humidity	$-10^{\circ}\text{C} \sim 40^{\circ}\text{C}$; below 80%RH														
Protection Level	IP54														
Accessories	Alarm: 1 piece; Button cell: 1 piece														

