Astechnic
诺 一

AIC10
Flame Controller

Foshan NUOE Combustion Control Technology Co., Ltd.
Tel: 4000-8397-18 Web: http: //www. astechnic.net E-mail: Astechnic @ 163.com

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AIC10Flame Controller

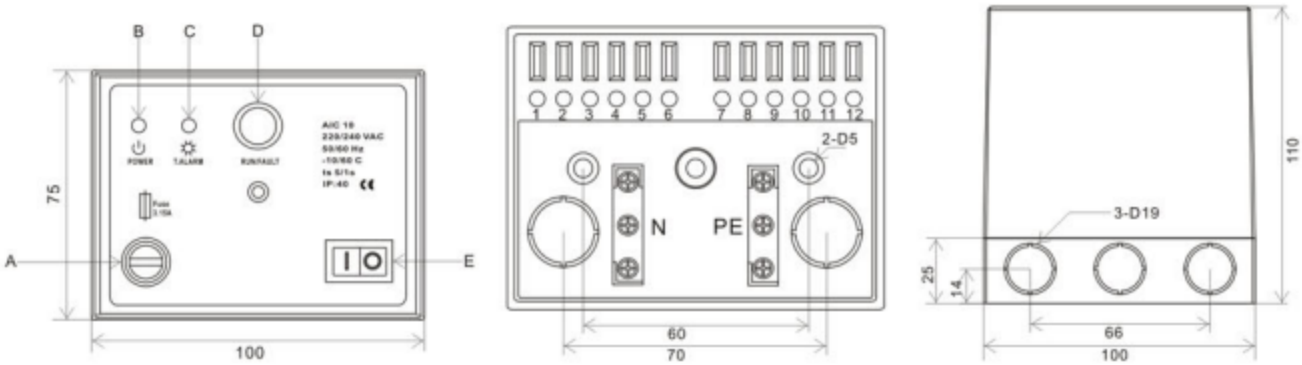
Overview

- It has many functions, such as automatic ignition control, flame detection indication, flameout protection, fault alarm indication, remote reset, large and small fire combustion control, over-temperature alarm, etc.
- There is no built-in ignition transformer, which can be connected to any ignition transformer with power less than 100W.
- Flameout without secondary ignition, flameout immediately call the police.
- It has powerful anti-interference function and can work under strong frequency conversion interference.
- Flame detection method can be double-electrode or single-electrode detection.
- External fuse, very convenient to replace.
- The utility model adopts the way of plug-in base and is easy to install and use.

Technical Parameters

- Supply voltage: 220~240VAC 50Hz
- Maximum power consumption: 10W
- Terminal load: 5A
- Fire detection sensitivity: 2uA
- Fuse: T3.15A
- Safety time: 5s
- Operating temperature: -20~+60° C

AIC10 Installation dimension drawing



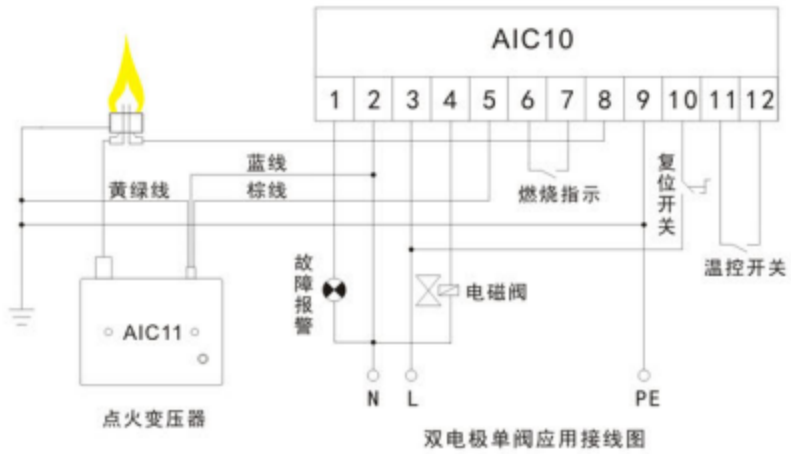
- A: Fuse holder, built-in 3.15A slow-acting fuse
- B: The power LED --- green
- C: Overtemperature alarm indicator (flashing when alarming) --- yellow
- Fire detection sensitivity D: normal operation and fault alarm indicator --- red and green two-color
  Green light during normal operation
  Red light when the fault alarm is issued
- E: Start/reset switch

Product Code

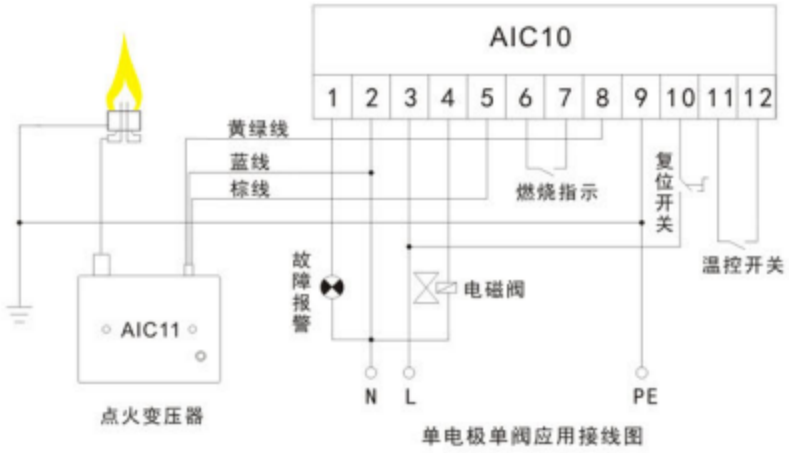
No.	Product Code	Product Model	Description
1	115050100001	AIC10	Automatic burner controller with overtemperature alarm

Wiring

Pin Definition: 1. Alarm output; 2. Power supply (N); 3. Power supply (L); 4. Solenoid valve output; 5. Ignition control; 6.7. Combustion output; 8. Flame detection; 9. Grounding; 10. Remote reset; 11, 12. Temperature control switch input



Application wiring diagram of double-electrode single valve



Application wiring diagram of single electrode and single valve

Troubleshooting

Do not ignite after starting, alarm immediately.	The electrode is leaked by moisture	Dry the porcelain tube, or replace the porcelain tube.
	The ignition cable is too long	Shorten the ignition cable to 1M.
	The distance between the ignition electrode and the burner is too large	Adjust the distance between the electrode and the burner head to a maximum of 3mm.
	The ignition cable is in poor contact with the electrode contact	Re-determine the connection of the cable and electrode connector.
There's a spark, but there's no fire	The solenoid valve does not open	Check that the solenoid is wired correctly or loosely.
Alarm immediately after the fire	Detect that the electrode is not exposed to flame	Adjust the air/gas ratio.
	Detect electrode carbonization or unreliable wiring	Check the electrode and wiring status.

Precautions for Installation

- AIC10 cannot be installed in the following environments.

  a. Where there are special chemicals and corrosive gases (ammonia, sulfur, chlorine, ethylene, acid gas, etc.).

  b. In water, in humid (humidity not exceeding 90%) or in dewy environment.

  c. Places where the temperature is too high and vibrates frequently.
- Ignition transformer ignition high voltage cable wiring must be isolated from other wiring at a distance of at least 10CM.
- The ground wire of the ignition transformer must be connected to the metal shell of the burner.
- The length of the ignition high voltage wire shall not exceed 1 meter.
- The maximum length of the flame detection line is 50 meters (without interference).
- The AIC10 ignition controller does not have the purge function before ignition, so it is important to determine whether the purge function is required when selecting it.
- Please make sure that the ignition ground wire is properly grounded and that the grounding resistance is less than 10 Ω.
- Make sure that the detection electrode is in contact with the flame and that the electrode lead is in good contact.