AT-08

Ignition Transformer

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AT-08 Ignition Transformer

Overview

AT-08 is a high-energy ignition transformer with reliable ignition. It is suitable for integrated burners, radiation tube burners, high-speed burners, industrial furnaces and other combustion devices, can point gases such as natural gas, coke oven gas, blast furnace gas, etc., with the characteristics of large ignition energy, longer ignition time, stable and reliable operation.

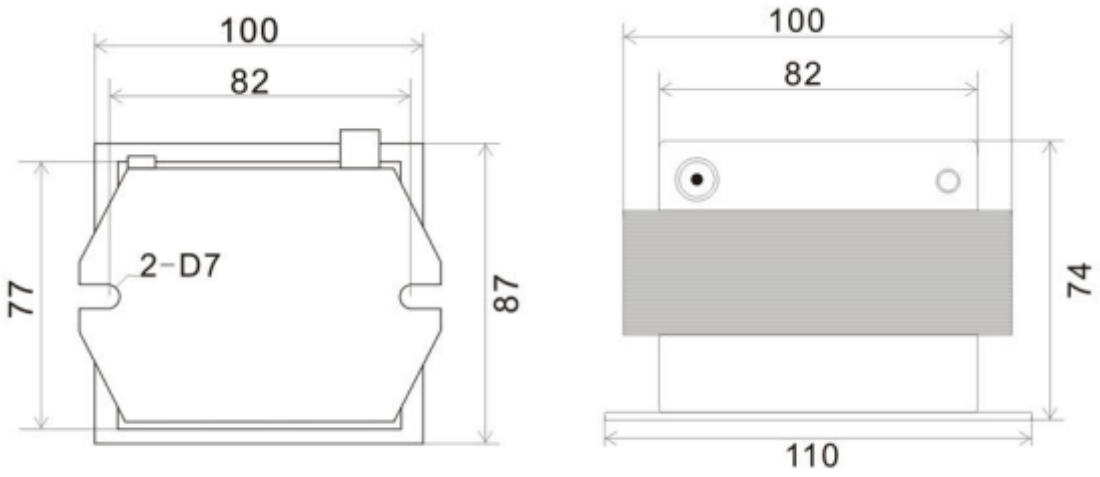
AT-08 has the following advantages:

- The whole product adopts modular structure, and the installation and wiring are very convenient.
- It has high reliability and is little affected by environmental factors.
- It will not be damaged by a short circuit when it is ignited.
- It is suitable for use with AFS258.

Technical Parameters

- Input: AC220V 50Hz 0.5A
- Output: ≥8KV 20mA
- Maximum power consumption: 36W
- Ignition distance: 3~5mm
- Ignition efficiency: 100% ED
- Wiring form: three-wire or four-wire system
- Operating temperature: -20~+60° C
- Dimensions: 100*92*73mm

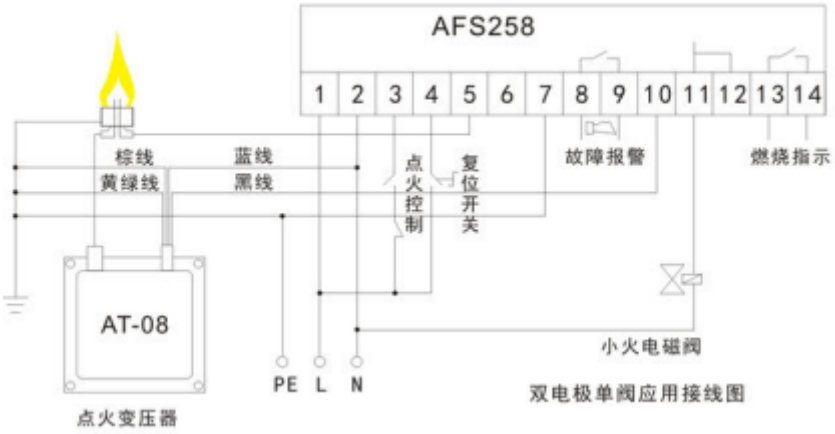
AT-08 Installation dimension drawing



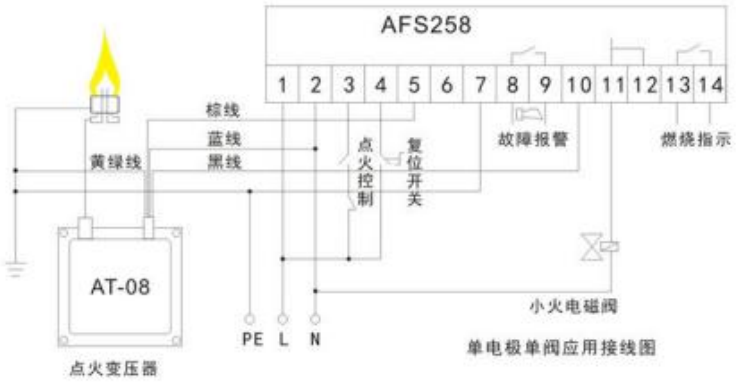
Product Code

No.	Product Code	Product Model	Description
1	114010080001	AT-08	Four-wire ignition transformer, can be used with single and double electrodes.
2	114010080002	AT-08	Three-wire ignition transformer, only for double electrodes.

AT-08 and AFS258 wiring diagram



Application wiring diagram of double-electrode single valve



Application wiring diagram of single electrode and single valve

AT-08 wiring definition: 1. Black wire connection wire; 2. Blue line to zero line; 3. Brown wire connected to fire detection line; 4. Yellow-green line grounding

- Two-electrode connection method:

The black wire (Firewire) is connected to terminal 10 of the AFS258 controller

The blue wire (neutral wire) is connected to terminal 2 of the AFS258 controller

The brown line is grounded

The yellow-green two-color wire is grounded

- Single electrode connection method:

The black wire (Firewire) is connected to terminal 10 of the AFS258 controller

The blue wire (neutral wire) is connected to terminal 2 of the AFS258 controller

The brown wire (flame detection) is connected to terminal 5 of the AFS258 controller

The yellow-green two-color wire is grounded

Precautions for Installation

- The AT-08 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.
- The working ambient temperature of the ignition transformer is-20 °C and 60 °C. Please do not work at too high temperature for a long time, otherwise it will affect the service life of the ignition transformer.
- In general, the ignition transformer can be installed near the ignition burner. If the temperature near the ignition burner is higher than 60 ℃, it can be installed away from the ignition burner.
- The yellow-green two-color wire of the ignition transformer must be reliably connected to the shell of the burner and well grounded.
- The high voltage output interface of the ignition transformer must be tightened so as not to burn out the interface due to poor contact.
- In order not to interfere with the normal operation of other equipment, the high-voltage output line of the ignition transformer should not be worn in the same pipe with the signal line of other equipment, but should be run separately, and the length of the high-voltage wire should not exceed 5 meters.
- Please make sure that the ignition output circuit of the ignition transformer is not short-circuited, which will cause permanent damage to the ignition transformer for a long time.