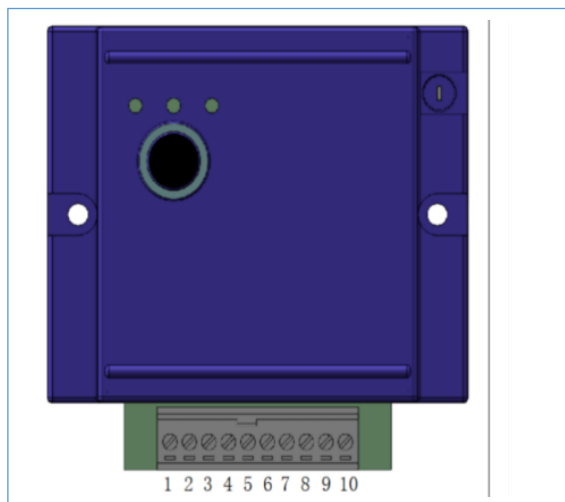


EM1124 Ignition controller with reset button (230VAC)



1: Application

EM1124 Gas burner controller is a high performance controller specially designed for fuel and gas combustion control.

It's not only can be used for traditional combustion control but also can be widely used in higher demanding combustion environment.

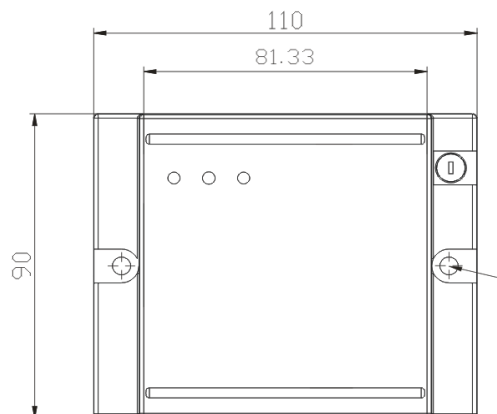
This kind of products is suitable for Multiple nozzles or burning occasions with purging requirement.

Such as ceramics, metallurgy, glass, building materials and many other industries of combustion system.

2. Technical parameters

Input voltage	AC 230V(-15%~ +10%), 50/60Hz
Protection level	IP54
Environment temperature	-20----+60℃
Environment humidity	< 95%
Operating life	>100 thousand times
Weight	211 g
Dimensions	110Lx105Wx30H(mm)

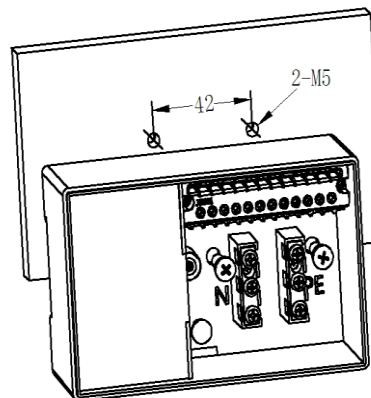
4. Dimensions



3 .Features

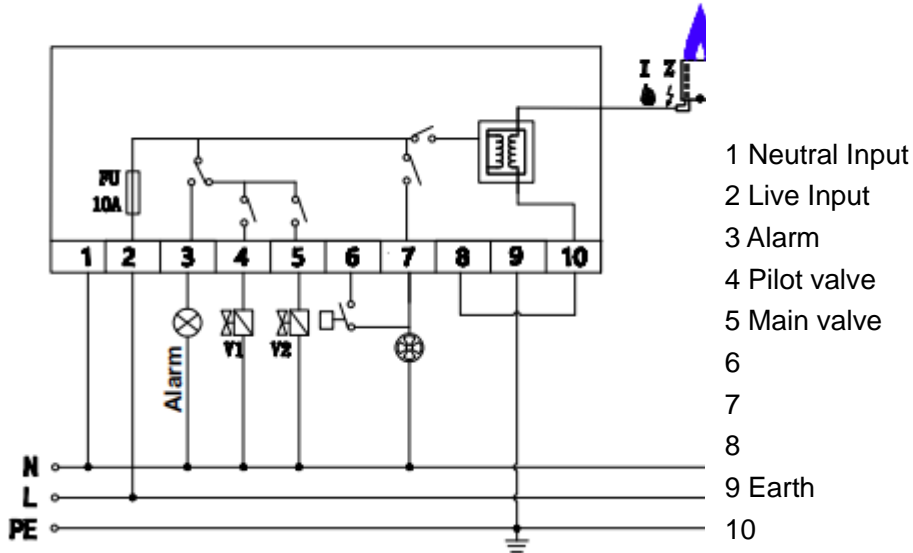
- * 24 hours continuous operation, hundreds of thousands of operating lifetimes
- * IP54 protection level,
- * Apply to site or cabinet installation
- * Operation status display, fault information display

5. Installation diagram



6. Terminal connection & Wiring diagram

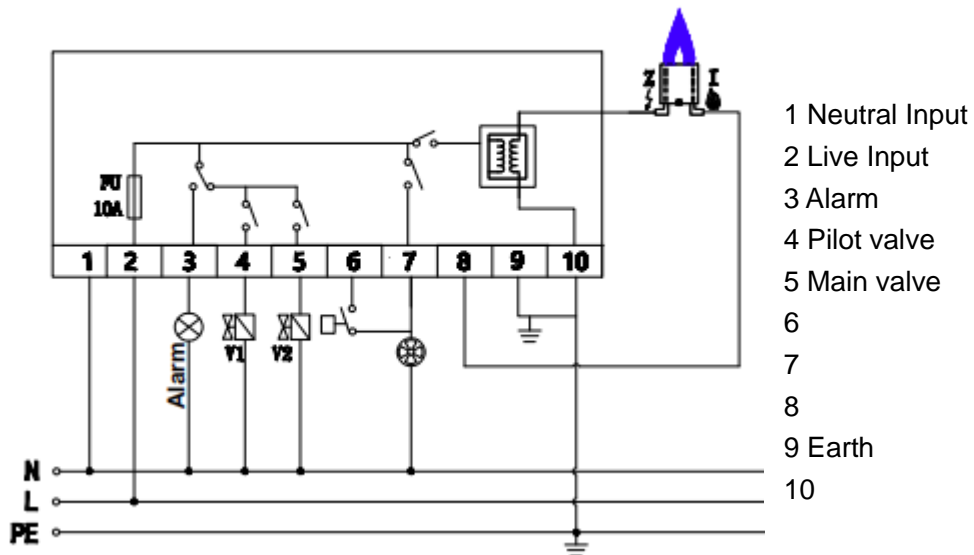
Single electrode



Single Electrode Type:

- In this configuration, ignition and detection occur using the same electrode.
- Terminals 8 and 10 are short-circuited to achieve this functionality.

Double electrodes



Double Electrode Type:

- With the double electrode setup.
- Terminal 9 is used .

Operating instructions:

1. **Power Supply and Fan Start:**
 - The controller supplies power and starts the fan after the self-test passes.
2. **Ignition Process:**
 - Upon starting, the pressure signal is received.
 - The igniter begins the ignition process.
 - If there are no issues, the system enters normal operation.
 - If ignition fails, the fan continues to run.
 - Afterward, two more ignition attempts occur (with a customizable time interval).
 - If ignition still fails, the alarm light activates.
 - The fan stops running after 30 seconds (adjustable fan runtime).
3. **Flame Signal Loss During Normal Operation:**
 - If the flame signal is lost during normal operation, the system attempts ignition again.
4. **Alarm and Reset:**
 - After an alarm, press the reset button to reset.
 - For normal operation, the reset is ineffective.
5. **Power Supply Restart:**
 - If the controller is powered off during running or alarm state, the power supply restarts.
6. **Flame Status:**
 - If the flame is not established after ignition or is lost during operation:
 - The alarm light remains on continuously.
 - Terminal 3 output is 100%.
7. **Flame Simulation Failure:**
 - If flame simulation fails (flame detected before ignition):
 - The alarm light flashes three times and pauses for three seconds.
 - Terminal 3 output is 100%.
8. **Fan or Pressure Switch Fault:**
 - If the fan or pressure switch is faulty:
 - The alarm light flashes once and pauses for three seconds.
 - Terminal 3 output is 100%.

Feel free to follow these steps for testing!



Cautions

- * The installer must be professionally trained and experienced.
- * Please check the installation level of the product to ensure that the product is suitable for installation.
- * Please disconnect power supply before installation and ensure the controller is well grounded to avoid personal injury and death or equipment damage!
- * Please make sufficient precautionary measures against accidental electric shock and prevent personnel from touching live parts!
- * Please read the installation instructions carefully before installation.
The operation error may cause the product damage or accident.

VOLTAGE: 230VAC
PURGE: 30 SEC.MIN

T.AM B : -20 TO 60°C
SAFETY T: 10 SEC.MAX