

Ultraviolet flame detector



Ultraviolet flame detector specification

The flame detecting system is to ensure safe and stable operation of the burner. The ultraviolet flame detector is used to detect flame for the fuel gas and oil industrial burners. This detector is only sensitive to the ultraviolet radiation, and has no reaction to the light and high temperature radiation in the furnace, with strong anti-interference. It is used for control cabinet or field installation, please select model and bracket according to the field situation, and avoid high temperature and rain. The detector can control the ignition device automatically, and open the fuel valve when ignition. The power indicator (red) lights up when switch on the power, if no ignition in the setting time, the controller automatically closes the fuel valve; If the ignition is successful, the fuel valve will keep opening and the fuel is supplied normally. When the flame is detected, the controller fire indicator light (green) is on, and the fuel valve keeps open, fuel supply normally; When no flame is detected, the controller fire indicator light (green) is off and the fuel valve is automatically closed.

Technical parameters

1. Power supply: 220V 10% 50/60hz
2. Flame detection: UV sensor
3. The working temperature: $-20^{\circ}\text{C} \sim 80^{\circ}\text{C}$
4. Detection response time: ≤ 0.2 seconds
5. Flame out and valve closing time: adjustable from 1 to 6 seconds
6. Spectral response range: 100-280nm
7. Output signal: a pair of S/DT contact switch output, a group of level signals 220VAC, 0-20mA output
8. Protection level: IP65/BTU
9. Fuels detecting: fuel gas and fuel oil
10. Installation: bracket installation
11. Detecting way: non-contact;

Troubleshooting

1. No flame but the detector shows have: This is caused by the interference of the gradually increasing distribution capacitance after the detecting line being damped. Please open the module and slowly adjust the potentiometer counterclockwise until the fire indicator (green) is off and the relay is released.
2. There is flame but the detector shows no: Maybe two causes: One is that the probe lens is covered by dust; the other is that the impedance matching potentiometer is over regulated. Please open the module and slowly adjust the potentiometer clockwise until the fire indicator light (green) is on and the relay is closed.
3. If you accidentally break the lens of the probe during installation or use, do not use ordinary glass sheet instead, because the ordinary glass sheet cannot pass through the ultraviolet ray generated by the flame.

Note: Please do not adjust the sensitivity of the product in any cases. For adjustment, please contact our technical staff for confirmation and guidance.