

DUAL INFRARED FLAME DETECTOR EST-FD-IR2

EST



PRODUCT OVERVIEW

EST-FD-IR2 dual-wavelength infrared flame detector is an explosion-proof intelligent fire detection device that uses advanced dual-infrared sensing technology to use infrared sensors with different wavelengths with narrow-band filtering, one of which operates at the center wavelength that reflects the flame information. The other two sensors monitor the other infrared radiation in the environment, combined with the flickering characteristics of the flame, through the high-performance microprocessor and advanced mathematical algorithm model for operational analysis, so that only the radiation spectrum that meets the flame characteristics will be recognized as a fire alarm. The false fire alarm signal formed by other interference factors will be excluded. The detector can suppress the interference of sunlight, lightning, electric welding, artificial light source, environment (human, etc.), heat radiation, electromagnetic interference, mechanical vibration and the like. Thereby achieving a fast response and accurate identification of the flame signal. The detector uses non-contact detection, the sensitivity is adjustable in the field, and the passive contact, standard current output and bus interface are connected to the fire alarm system.

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1. Anti-false alarm ability is stronger, and it has strong anti-interference to sunlight, lightning, electric welding, artificial light source, heat radiation, electromagnetic interference, and machine movement.
2. Using the point detection principle, one wavelength is the center wavelength of the flame, mainly collecting the radiation signal generated by the flame; one wavelength is the thermal radiation flashing wavelength, which is used to detect the ambient infrared signal (non-fire signal).
3. The built-in processor collects the signals of the two wavelengths, and determines the occurrence of the fire through the artificial intelligence algorithm, and reports the fire alarm.
4. The detector's viewing angle is 110 degrees, forming a fan-shaped viewing area in front of the detector.
5. The structure is waterproof and explosion-proof, adapting to different applications.

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SPECIFICATIONS

Operating Voltage	DC24V \pm 15% (nominal DC24V)
Static monitoring current	\leq 30mA (24VDC)
Alarm state current	\leq 40mA (24VDC)
Signal output	Relay passive point, bus output
Installation method	Wall or hoisting
Response time	10 to 30 s (high speed type \leq 3 s)
Maximum response distance	50m bottom surface size (33cm \times 33cm) n-heptane brazier
Detection angle	\leq 110°
Operating temperature	20C \sim +60 ° C (enhanced -40C \sim +70 ° C)
Relative humidity	95% RH (40 \pm 2 ° C)
Cable entry device interface	M20 \times 1.5 internal thread) interface, optional 1/2" NPT or G1/2 or G3/4
Explosion-proof signs and protection levels	Exd II CT6: IP66
structure	Dimensions: 120X98 \times 116mm; Weight: 1.1 \pm 0.1kg; Shell: Aluminum alloy
Executive standard	GB15631-2008: GB3836-2010

