HIKFIRE

JTG-H-HF101-IR4(Ex)
Flame Detector



The flame detector utilizes dedicated three-band infrared sensor components for flame detection. Through a built-in high-speed microprocessor and intelligent algorithms, it can quickly and effectively distinguish between real flame radiation and interference sources. This product enables early flame alarm detection and is widely used in key units with flame protection and security needs, such as hospitals, schools (laboratories, libraries, warehouses, archives), museums, Taoist temples, banks (ATM rooms, equipment rooms), safety production workshops, indoor substations, new energy facilities, petroleum and petrochemical industries (gas stations), etc.

- The detector adopts advanced multi-band infrared pyroelectric sensors and is based on time-domain, frequency, and neural network algorithms. It can accurately detect open flame combustion of hydrocarbons such as alcohol, n-heptane, and gasoline, while maintaining strong anti-false alarm capabilities and stable, reliable operation.
- It innovatively uses a dynamic gain signal acquisition solution, accommodating flame detection at both near and far distances. For a 0.1 m2 flame pan, it achieves a detection range of over 50m and a detection angle of no less than 100 degrees.
- It features comprehensive circuit self-diagnosis function, supporting sensor self-test and lens contamination detection.
- Three status indicators independently display the detector's operation, fault, and alarm statuses.
- The housing is made of high-strength die-cast aluminum with an IP68 protection rating. It is suitable for use in both general civilian sites and industrial hazardous sites, featuring excellent explosion-proof performance and strong resistance to dust, moisture, and corrosion.

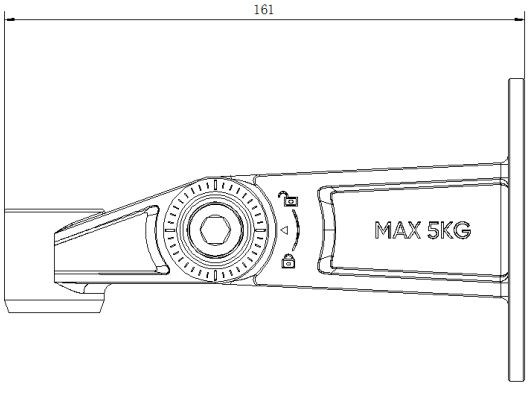
▪ Specification

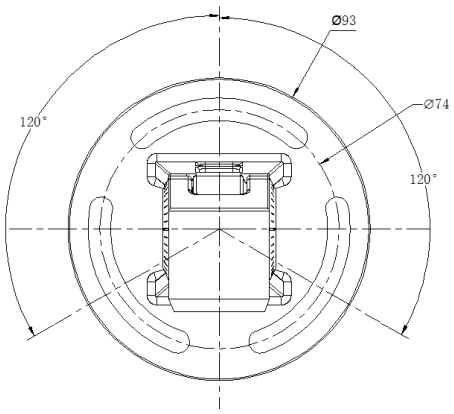
Detector	
Image Sensor	Flame Sensor： 4.3 μm Primary Detection + 2.7 μm Primary Detection + 5.0 μm Reference + 3.8 μm Reference
Detection Range	Within 50 meters
Alarm Indicator Light	Red: Alarm Green: Normal Yellow: Fault
FoV	≤100°
Function	
Alarm Threshold	1 - 5 levels adjustable (Factory default: Level 3)
Interface	
Alarm Interface	2 Dry Contact Outputs (Flame Alarm Relay, Fault Relay), Contact Rating Max. Supports DC 30 V/2 A or AC 125 V/0.5 A
Interface	1 power interface
General	
Using Environment	-40 °C~ 75 °C, Humidity less than 95% (non-condensing)
Ingress Protection	IP68 (2m, 2h)
Mounting Height	Indoor: Higher than 2.5 m Outdoor: Higher than 3.5 m
Power Interface Type	2-pin industrial terminal block, 5.08mm pitch
Shell Material	ADC12
Power	Non-polarized DC24V or Hikvision Flame Two-wire Bus
Power Consumption	Operating Voltage: DC 24V, Operating Current: Standby Current 18mA, Alarm Current 35mA
Weight	Unit Weight 1.3 kg, Packaged Weight 1.6 kg
Dimension (L × W × H)	Detector: Φ80 mm*140 mm Bracket: 161 mm*93 mm*93 mm
Installation	Product includes bracket Fastened to the flame detector bracket via M16 bolts/screws

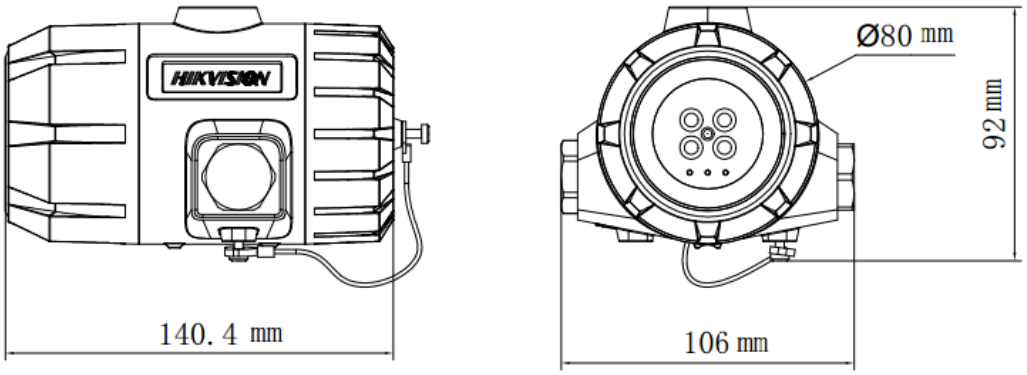
▪ Available Model

JTG-H-HF101-IR4(Ex)

▪ Dimension






HIKVISION
140. 4 mm
Ø80 mm
92 mm
106 mm

HIKFIRE

Safer Place Better Life

Headquarters
Address: Room 311, Unit B, Building 2, No.399,
Danfeng Road, Binjiang District, Hangzhou City,
Zhejiang Province, China
Tel: 0086 400-800-5998
www.hikvision.com

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