

fladet[®] SERIES...
IH-167
UV FLAME DETECTOR

AGNI CONTROLS
CHENNAI

fladet IH-167 Ultra Violet Flame Detector with IP-67 protection. The detector makes use of Ultra Violet sensitive photo cathode for detection of flame. It has a narrow spectral sensitivity of 185 to 260 nm, being completely insensitive to visible light.

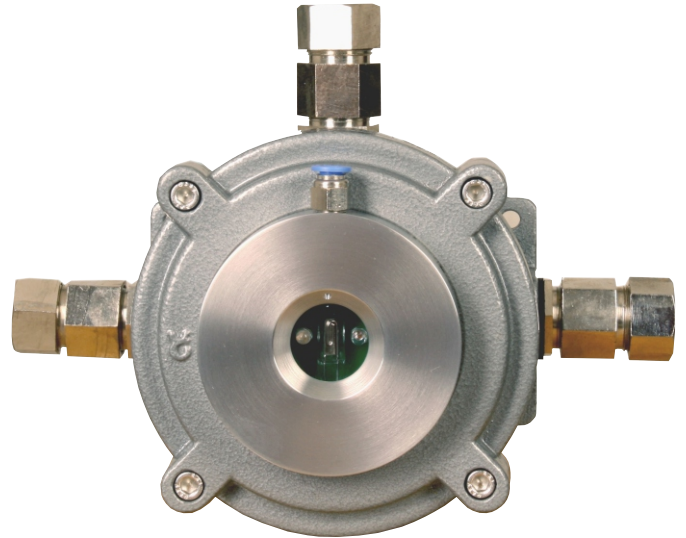
The UV Flame Detector has wide angular sensitivity (directivity) and can reliably and quickly detect weak Ultra Violet radiations emitted from flame. The detector can detect the flame of cigarette lighter at the distance of more than 5mtrs.

It can be connected to any standard conventional Fire Alarm Panel or to any Annunciator or PLC or DCS through the potential free 'NO/NC' contacts provided. In built Red LED is also provided for visible indication in case of fire situation. In built Flicker Green LED indicate the normal condition of the Flame Detector. Provision for Air Purging to clean the Detector Eye by using Instrument Air at pressure of 1 to 2 bar.

APPLICATIONS:

UV Flame Detectors are very effective for the following application as per Standard NFPA-72

- High-ceiling, Open spaced buildings such as ware houses.
- Outdoor or semi outdoor areas where winds or draughts can prevent smoke from reaching a heat or smoke detectors. Areas where rapidly developing flaming fires can occur, such as storage and transfer areas.
- Areas needing high fire risk machinery or installations, often coupled with an automatic gas extinguishing system.
- Environment that are unsuitable for other type of Detectors.



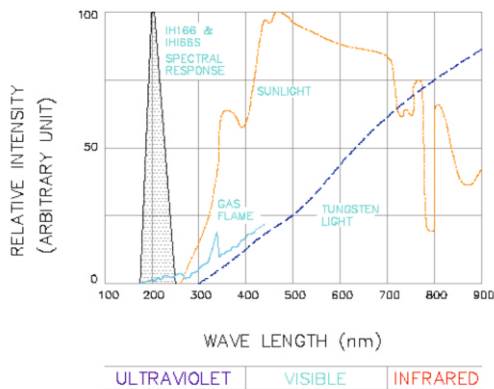
IH - 167 UV FLAME DETECTOR

ADVANTAGES:

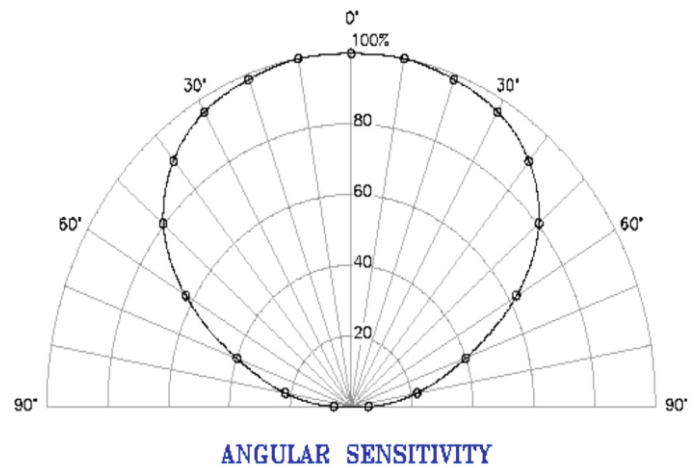
- Rugged model suitable to use in Non-Hazardous Outdoor Application
- Easy to Install, operate and maintain
- High speed Response
- Visual Indication for Alarm/Normal condition
Readily used in the environment where other type of detectors are unsuitable

DETECTOR SENSITIVITY:

The response time of the detector depends on the size of the fire, fuel type, and the distance from the detector to the fire. Smaller fires and greater distances normally require greater response times. The detector can sense a flame of cigarette lighter at the distance of 5metre. It can detect a fire of 1 Sq.ft. at 30 metres.



IH-166 & IH-166S SPECTRAL RESPONSE AND VARIOUS LIGHT SOURCES.



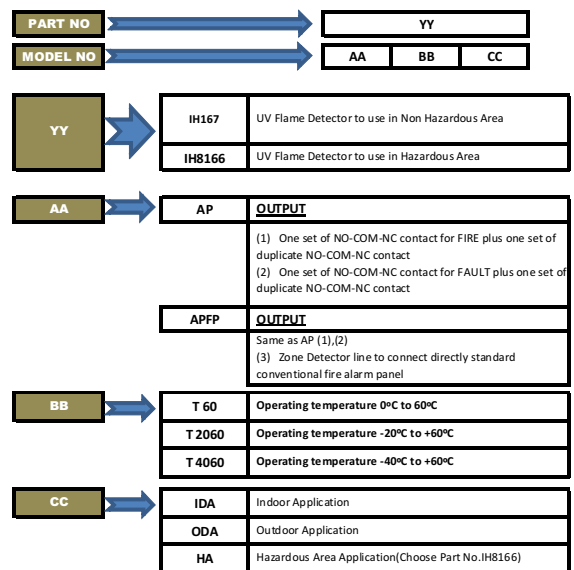
INSTALLATION CONSIDERATION:

fladet IH-167 must be installed such that no obstruction is on the way of sight of the detector. Existence of UV radiations sources like halogen lamps, direct sunlight, mercury lamps and welding arcs may affect the performance of the detector. For application in the above environment, ask for manufacturer guidance.

MAINTENANCE & INSPECTION:

To assure maximum detector sensitivity, keep the surface of the Optical filter free from dirt or other contaminants at all times. Periodically test the sensitivity of the detector using a controlled flame or lighter flame. Fladet IH-167 offers an additional provision for connecting to pneumatic air purging system to clean the surface of the detector.

ORDERING INFORMATION: Select suitable Part no. & Model no.



Packing Size : 300 (L) X 250 (B) X 165 (H) (all in mm)
 Packing Weight : 3.0 Kg. Max

PART NO	IH167	MODEL NO	APFP-T 2060-ODA
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COMMON TECHNICAL SPECIFICATION	
01. Brand Name	fladet series..
02. Quiescent Current	< 40mA
03. Alarm Current	< 120mA
04. Indication	Normal - Flickering Green LED Fire - Red LED
05. Sensing Element	UV
06. Relay Contact Rating	5A at 30VDC, 1A at 250V AC
07. Supply	24VDC±20% (RESETTABLE)
08. Finishing	Enclosure - Hammer Tone Gray
09. Material	Cast Aluminium LM6
10. Cable Entry	3/4" ET - 03 Nos.
11. Protection Class	IP67
12. Fasteners	SS 304
13. Air Purging	1 to 2 bar

TECHNICAL SPECIFICATION FOR MODEL. NO : APFP-T2060-ODA	
01. Output	1. One set of NO-COM-NC contact for FIRE plus one set of duplicate NO-COM-NC contact 2. One set of NO-COM-NC contact for FAULT plus one set of duplicate NO-COM-NC contact 3. Zone Detector line to connect directly standard conventional fire alarm panel
02. Operating Temperature	-20°C to +60°C
03. Application	Outdoor & Semi Outdoor
04. Approval / Confirmation / Certification	1. IP Protection certified by ETDC 2. Confirming requirement NFPA 72E 3. Confirming requirement of FM standards. Class No. 3260 4. Confirming requirement of IS-2189

APPROVAL/CONFORMATION/CERTIFICATION:

1. Conforming Requirement of NFPA 72E.
2. Conforming Requirement of FM Standards Class No. 3260.
3. Conforming Requirement of IS-2189.

ACCESSORIES REQUIRED:

1. Swivel Mounting Base - IH-MB-01 XY

Important :
 This document is not intended to be used for installation purposes. Specifications are subject to change without prior notice.

Revised as on April-10

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ISO 9001 - 2008
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