

IH8555 - Triple IR Flame detector for Flame Proof area application

Why & Where Do We Need to Use Triple IR Flame Detectors...

In process or Storage area, we have different type of Environment and Activities. Places where we need to protect may expose to direct or indirect sun, hot body movement, furnace activities, welding and grinding activities, heat waves, electromagnetic interference, climatic changes like hot summer to deep winter, dry weather to high humidity, fog and snow etc.,

With above multiple interference we need to detect only Actual Fire not False Fire.

Specially designed high false alarm immune IH8555 Triple IR Flame Detector meet these challenging requirements.

INTRODUCTION

fladet series...IH8555 Triple IR Flame detector with suitable flameproof enclosure is specially designed to use in areas, where smoke and heat detectors are less effective. This is 4 wire detector. The detector has provision to connect directly to any standard fire alarm panel or connect with Annunciator or PLC using potential free 'NO' contacts.

Detector give fire indication after comparing 3 IR sensor for Actual fire, eliminating false alarm. The intelligent signal processing enables the detector to distinguish between false source and real fire.

APPLICATION

- ✦ Chemical Areas
- ✦ Petro Chemical Areas
- ✦ Paint Booths
- ✦ Paint Shops
- ✦ Natural Gas installations
- ✦ High ceiling / open space buildings such as warehouses
- ✦ Air Craft Hangers

ADVANTAGES

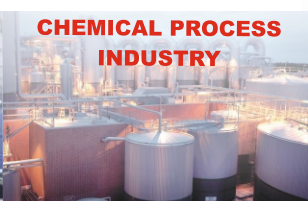
- ✦ QUICK RESPONSE TO FLAMING FIRES
- ✦ EXTREMELY IMMUNE TO FALSE SOURCES
- ✦ VISUAL STATUS MONITORED THROUGH LED INDICATIONS
- ✦ EASY TO CONNECT WITH ANY CONVENTIONAL & ADDRESSABLE FIRE PANELS, PLC PANELS.





DETECTOR SENSITIVITY

fladet - IH8555 Triple IR Flame Detector can detect 1 sq.ft N-Heptane fire flame at a distance of 50 mtrs within 5 to 30 sec.

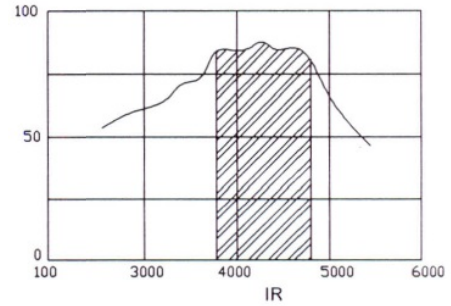
THE RESPONSE TIME OF THE DETECTOR DEPENDS ON THE SIZE OF FIRE, FUEL TYPE AND DISTANCE OF THE FIRE SOURCE. SMALLER FIRES AND GREATER DISTANCES NORMALLY REQUIRE MORE RESPONSE TIME.



TECHNICAL SPECIFICATION - PART NO : IH8555

01. BRAND NAME	fladet series..
02. MANUFACTURER	AGNI CONTROLS, CHENNAI
11. QUIESCENT CURRENT	< 120mA
12. ALARM CURRENT	<150mA
15. RELAY CONTACT RATING	1A at 24VDC, 0.5A at 120VAC
04. CABLE ENTRY	M25 X 1.5 - 2 Nos.
06. SENSING ELEMENT	3 IR
07. RANGE	IR : 3000-5000nm
13. INDICATION	NORMAL - GREEN LED FIRE - RED LED FLASHING
09. OPERATING TEMPERATURE	-20 Deg.C TO +60 Deg.C
10. SUPPLY	24VDC ±20% (RESETTABLE)
14. OUTPUT	1. ONE SET OF 'NO-COM-NC' CONTACTS FOR FIRE + ONE SET OF DUPLICATE 'NO-COM-NC' CONTACTS. 2. ONE SET OF 'NO-COM-NC' CONTACTS FOR FAULT + ONE SET OF DUPLICATE 'NO-COM-NC' CONTACTS. 3. ZONE / DETECTOR LINE TO CONNECT DIRECTLY STANDARD CONVENTIONAL FIRE ALARM PANEL.
14. ENCLOSURE MAKE	LIMATHERM, POLAND
15. MATERIAL	CAST ALUMINIUM LM6
16. FASTENERS	SS 304
16. EQUIPMENT RATING	EXPLOSION PROOF FOR CLASS I, DIVISION 1, GROUPS A, B, C AND D: AND DUST - IGNITION PROOF FOR CLASS II/III, DIVISION 1, GROUPS E, F&G: HAZARDOUS (CLASSIFIED) LOCATIONS, INDOOR/OUTDOOR (NEMA TYPE 4X) 1026 Ex II 2G Ex d IIC Gb 1026 Ex II 2D Ex tb IIIC Db, IP67
17. CERTIFICATION FOR ENCLOSURE	 FM APPROVAL FOR ENCLOSURE XD-IDAC, REPORT NO. 3047332  ATEX APPROVAL FOR ENCLOSURE CERTIFICATE NUMBER: FTZU 04 ATEX 0332U PESO APPROVAL FOR ENCLOSURE CCEs IDENTIFICATION NUMBER : A/P/HQ/MH/104/5970 (P 505939/1)
18. APPROVAL / CONFIRMATION / CERTIFICATION	1. CONFORMING REQUIREMENTS OF NFPA 72E. 2. CONFIRMING REQUIREMENT OF FM STANDARDS. CLASS NO.3260.

IR DETECTOR SPECTRAL RESPONSE



INSTALLATION CONSIDERATION

1. Detector must be installed in such a way that no obstruction is on the way of sight of the detector.
2. Detector to be mounted focusing the possible fire risk area.



IHMB08-XY SWIVEL MOUNTING BASE

MAINTENANCE & INSPECTION

To ensure maximum detector sensitivity, keep the surface of the optical filter (detector eye) free from dirt or other contaminants at all times. Inbuilt air purging provision is available for maintenance purpose.

ACCESSORIES (included in product supply)

1. SWIVEL MOUNTING BASE - IH MB08-XY - 01 NO.
2. CABLE GLANDS - 2 NOS.
3. USER MANUAL

PACKING SIZE : 305(L) X 220(B) X 210(H) (ALL IN MM)

PACKING WEIGHT : 4 KG. MAX.