

IH1555 - TRIPLE IR FLAME DETECTOR

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

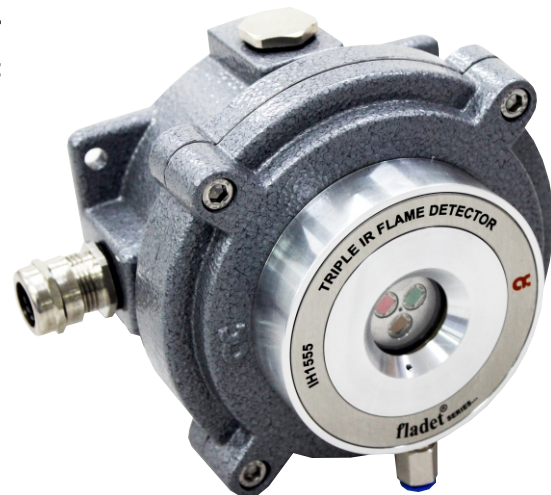
In process or Storage area, we have different type of Environment and Activities. Places where we need to protect may expose to direct or indirect sun, hot body movement, furnace activities, welding and grinding activities, heat waves, electromagnetic interference, climatic changes like hot summer to 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 IH1555 Triple IR Flame Detector meet these challenging requirements.

INTRODUCTION

fladet series...IH1555 Triple IR Flame detector with IP-66 protection 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

- ✦ DIESEL DAY TANK AREA
- ✦ OPEN CAR PARKING AREA
- ✦ MACHINERY PRODUCTION LINE
- ✦ STORAGE AREA
- ✦ HIGH ROOF AREAS
- ✦ PAINT STORAGE AREAS
- ✦ FUEL STORAGE AREAS
- ✦ OUTDOOR OR SEMI OUTDOOR AREAS
- ✦ HIGH FIRE RISK MACHINERY AREAS OR INSTALLATIONS, OFTEN COUPLED WITH AN AUTOMATIC GAS EXTINGUISHING SYSTEM
- ✦ UNDERGROUND CELLARS

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.



**HIGH RISK
PROCESS AREAS**



STORAGE AREAS



OPEN CAR PARKING

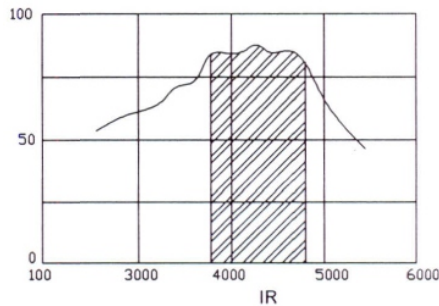


UNDERGROUND CELLARS



**DIESEL GENERATOR
AREAS**

IR DETECTOR SPECTRAL RESPONSE



TECHNICAL SPECIFICATION - PART NO : IH1555

01. BRAND NAME	fladet series..
02. MANUFACTURER	AGNI CONTROLS, CHENNAI
03. MATERIAL	CAST ALUMINIUM LM6
04. FINISH	ENCLOSURE-HAMMER TONE GREY II
05. CABLE ENTRY	M20 X 1.5 - 3 Nos.
06. PROTECTION CLASS	IP - 66
07. SENSING ELEMENT	3 IR
08. RANGE	IR : 3000-5000nm
09. FASTENERS	SS304
10. OPERATING TEMPERATURE	-20 Deg.C TO +60 Deg.C
11. SUPPLY	24VDC ±20% (RESETTABLE)
12. QUIESCENT CURRENT	< 120mA
13. ALARM CURRENT	<150mA
14. INDICATION	NORMAL - GREEN LED FIRE - RED LED FLASHING
15. APPLICATION	INDOOR AND SEMI OUTDOOR
16. 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.
17. RELAY CONTACT RATING	1A at 24VDC, 0.5A at 120VAC
18. APPROVAL / CONFIRMATION / CERTIFICATION	1. IP PROTECTION CERTIFIED BY ETDC. 2. CONFORMING REQUIREMENTS OF EN54-10, NFPA-72, IS 2189, ISO 7240-10 & FM STANDARDS CLASS NO.3260.

DETECTOR SENSITIVITY

fladet - IH1555 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.

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.



IHMB01-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 MB01-XY - 01 NO.
2. CABLE GLANDS - 2 NOS.
3. USER MANUAL

PACKING SIZE : 290 (L) X 165 (W) X 185 (H) (ALL IN MM)

PACKING WEIGHT : 3.5 KG. MAX.