

# fladet<sup>®</sup> SERIES...

## DATA SHEET

## UV FLAME DETECTOR FOR FLAMEPROOF AREA APPLICATION

PART NO: IH8166

OLD PART NO: IH166S/1

OLD DWG. NO: DP-5.8/08-82

DATE: NOV. 2023

REVISION : 05

SCALE : N.T.S

SHEET: 1 OF 2

APPD. BY : DBS

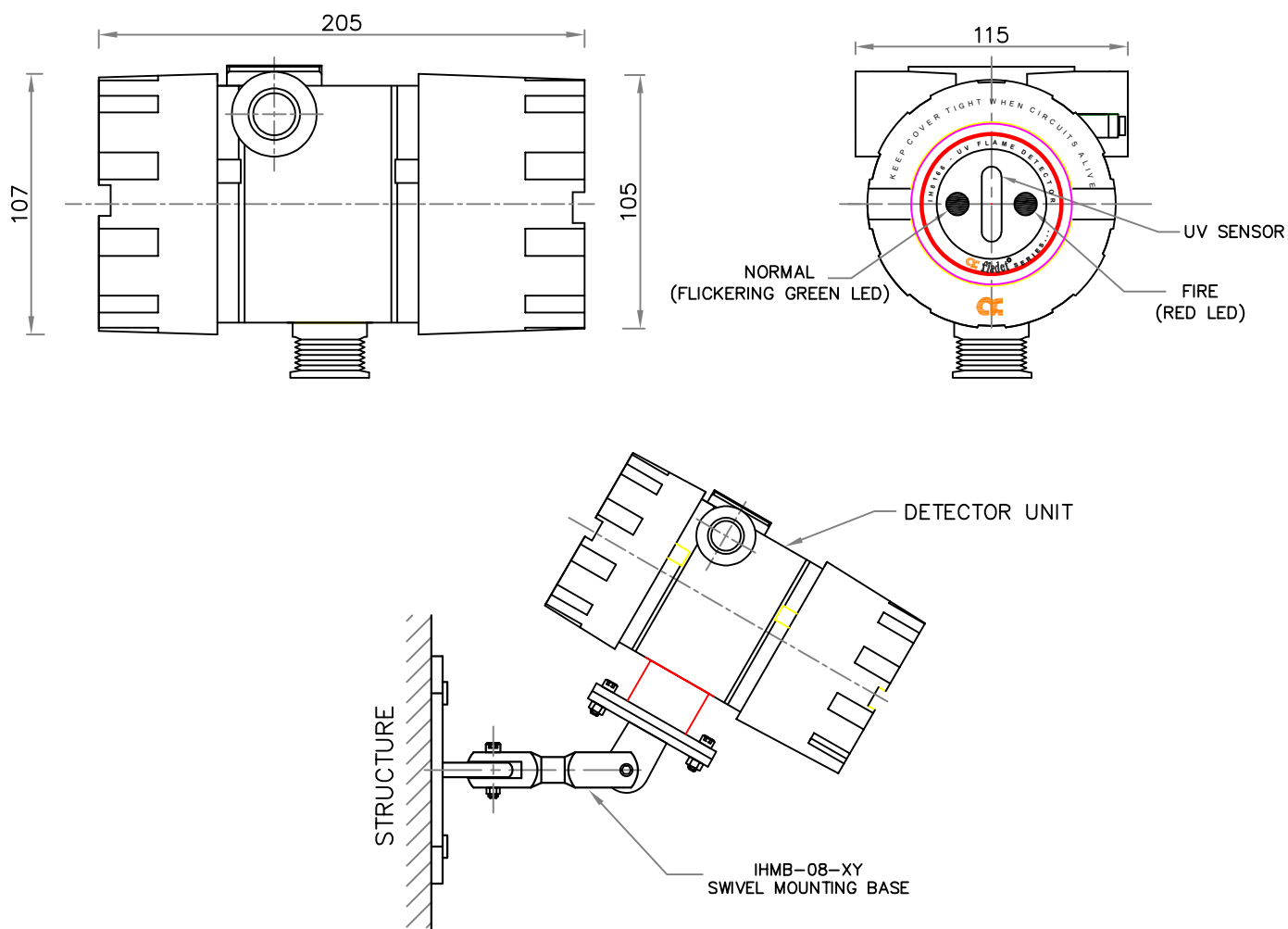
NEW DOC. NO: DP-5.8/MT-056

REV-00: 1.CHANGES IN DOCUMENT NUMBER, 2. CHANGES IN SPECIFICATION. REV-01: ADDITIONAL TECHNICAL SPECIFICATION ADDED.  
REV-02-MAR 2019 : REV 02 IS THE SAME AS REV 01 EXCEPT FOR ADDING ISO 9001:2015.  
REV-03-JAN 2020 : CHANGES IN PRODUCT NAME AND TECHNICAL SPECIFICATIONS.  
REV-04-JUNE 2021 : CHANGES IN PESO APPROVAL IDENTIFICATION NUMBER.  
REV-05-NOV. 2023 : CERTIFICATION DETAILS UPDATED.

### INTRODUCTION :-

UV FLAME DETECTOR WITH SUITABLE FLAMEPROOF ENCLOSURE TO DETECT FLAME. DETECTOR HAS PROVISION TO CONNECT TO ANY STANDARD CONVENTIONAL FIRE ALARM PANEL/ ADDRESSABLE PANEL TO CONNECT WITH ANNUNCIATOR OR PLC USING POTENTIAL FREE 'NO/NC' CONTACTS.

NOTE A : THIS DATASHEET CAN BE ALSO REFERRED AS DOC. NO: DP-5.8/MT-056



### RECOMMENDED MOUNTING ARRANGEMENT

#### NOTE B :

1. ALL DIMENSIONS ARE IN "mm" UNLESS OTHERWISE SPECIFIED.
2. TOLERANCE ON DIMENSION  $\pm 3$  mm, UNLESS OTHERWISE SPECIFIED.

### IMPORTANT:

AGNI CONTROLS RESERVES THE RIGHT TO CHANGE OR MODIFY WITHOUT PREVIOUS NOTICE ANY DATA OR SPECIFICATION DUE TO CHANGES OR MODIFICATION IN ORDER TO IMPROVE THE PRODUCTS/SYSTEM PRESENTED.

**AGNI CONTROLS**

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**ISO 9001 - 2015  
BUREAU VERITAS  
CERTIFICATION**

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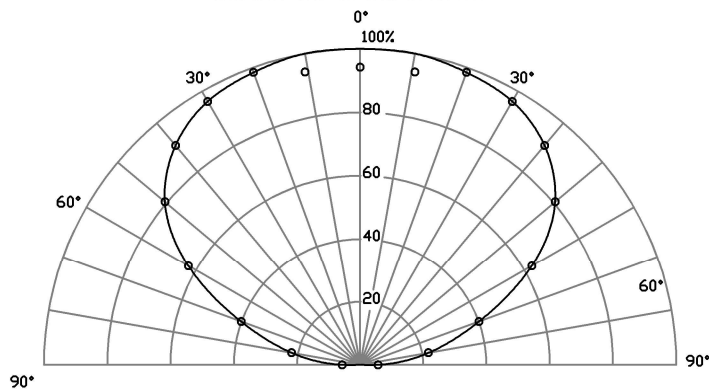
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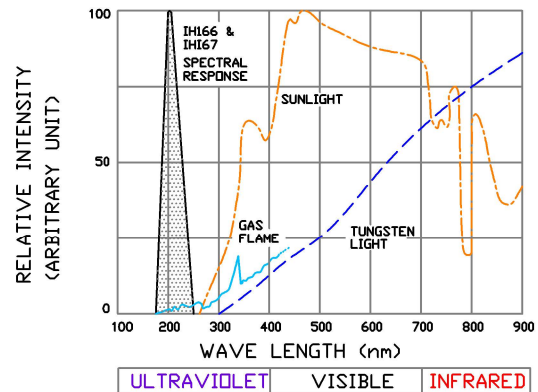
SHEET: 2 OF 2

APPD. BY : DBS

### ANGULAR SENSITIVITY



### UV DETECTOR SPECTRAL RESPONSE



### TECHNICAL SPECIFICATION FOR PART NO.: IH8166

01. MANUFACTURER	fladet <sup>®</sup> SERIES...	AGNI CONTROLS - CHENNAI	12. ENCLOSURE MAKE	LIMATHERM POLAND EU
02. SUPPLY	24V DC $\pm$ 20% (RESETTABLE)		13. MATERIAL	CAST ALUMINIUM LM6
03. QUIESCENT CURRENT	<40mA		14. FASTENERS	SS 304
04. ALARM CURRENT	<120mA		15. PROTECTION CLASS	IP 67
05. RELAY CONTACT RATING	1A AT 24V DC, 0.5A AT 120V AC		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).
06. CABLE ENTRY	M25 X 1.5 - 2NOS.			1026 Ex II 2G Ex db IIC Gb
07. SENSING ELEMENT	UV			1026 Ex II 2D Ex td IIIC Db
08. RANGE	UV - 185 TO 260nm			FM APPROVAL FOR ENCLOSURE. XD-IDAC, REPORT NO. 3047332
09. INDICATION	NORMAL - FLICKERING GREEN LED FIRE - RED LED		17. CERTIFICATION FOR ENCLOSURE	ATEX APPROVAL FOR ENCLOSURE. CERTIFICATE NUMBER : FTZU 04 ATEX 0332U
10. OPERATING TEMPERATURE	-40°C TO +60°C			PESO APPROVAL FOR ENCLOSURE. CCEs IDENTIFICATION NUMBER : P505939/1.
11. 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.		18. APPROVAL / CONFIRMATION / CERTIFICATION	1. CONFIRMING REQUIREMENT OF NFPA 72E. 2. CONFIRMING REQUIREMENT OF FM STANDARDS. CLASS NO. 3260

### INSTALLATION CONSIDERATION :

Detector must be installed such that no obstruction is on the way of sight of the detector.

### 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. The unit is ready for flame detection after 10 sec or second pulse of green LED, if whenever input supply is switch ON or reset.

**Note c :** For more details refer installation and maintenance manual (DP-5.8/CP/MT-056-A5).

**Packing Size :** 300(L) x 215(B) x 200(W) (all in mm)

**Packing Weight:** 3.2 kg. Max.

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