

fladet[®] SERIES...

DATA SHEET	PROBE TYPE HEAT DETECTOR WITH EXPLOSION PROOF JUNCTION BOX (150-250)°C	PART: IH042-H- *(150-250)°C-JAX			
DOC.NO: DP-5.8/MT-567	DATE: JULY. 2025	REVISION :05	SCALE : N.T.S	SHEET: 1 OF 2	APPD. BY : DB

INTRODUCTION :-

PROBE TYPE FIXED TEMPERATURE HEAT DETECTOR IS USED FOR FIRE ALARM APPLICATIONS. EXPLOSION PROOF JUNCTION BOX IS USED WHEREVER APPLICABLE.

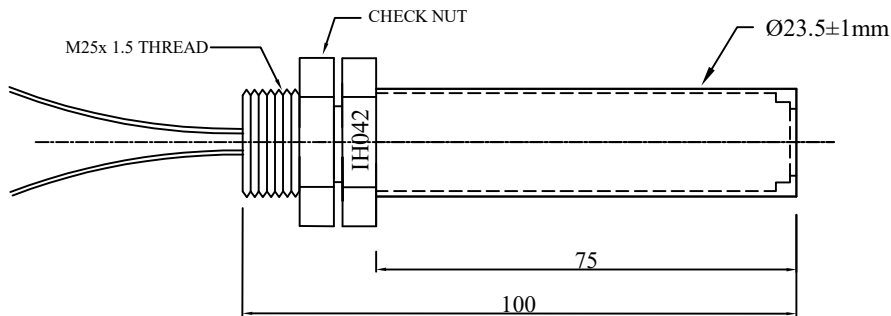
NOTE A:- THIS DATA SHEET CAN BE ALSO REFERRED AS DOC. NO.:DP-5.8/CP-567

REV-02: DATASHEET UPDATED FOR HIGHER TEMPERATURE SETTING

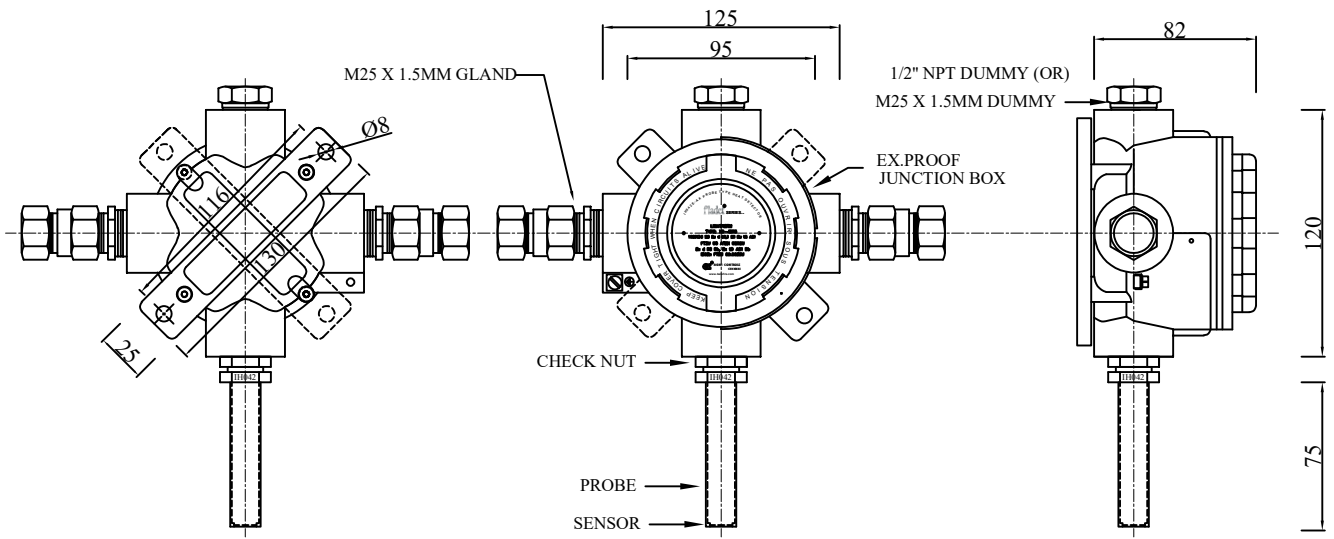
REV-03: TEMPERATURE RANGES UPDATED.

REV-04: SHORT LINK(+,-) REMOVED

REV-05: ADD NOTE IN C.



FIXING ARRANGEMENT:



BACK VIEW

FRONT VIEW

SIDE VIEW

NOTE B:

1. ALL DIMENSIONS ARE IN "mm" UNLESS OTHERWISE SPECIFIED.
2. TOLERANCE ON DIMENSION ± 3 mm, UNLESS OTHERWISE SPECIFIED.
3. THIS MODEL TO BE USED ONLY FOR OUTDOOR APPLICATIONS.
4. * : TEMPERATURE SET POINT TO BE CONFIRMED DURING ORDER PLACEMENT

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.



ISO 9001 - 2015
CERTIFIED COMPANY

NO.1, 6TH STREET, Dr.SUBBARAYAN NAGAR,
KODAMBAKKAM, CHENNAI-600 024, INDIA.

PHONE : +91 44 2481 2420,

E-MAIL : engineering@agnicontrols.com WEBSITE : www.balafire.com

fladet[®] SERIES...

DATA SHEET

PROBE TYPE HEAT DETECTOR WITH EXPLOSION PROOF JUNCTION BOX (150-250)°C

PART: IH042-H-
*(150-250)°C-JAX

DOC.NO: DP-5.8/MT-567

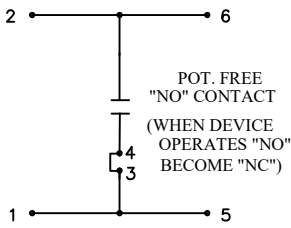
DATE: JULY. 2025

REVISION :05

SCALE : N.T.S

SHEET: 2 OF 2

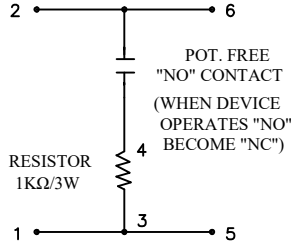
APPD. BY : DB



TYPE - I

EQUIVALENT CIRCUIT

FIG. 1



TYPE - II

**EQUIVALENT CIRCUIT FOR
2 WIRE CONVENTIONAL SYSTEM**

FIG. 2

S.NO	PART NO*	DESCRIPTION
01.	IH042-H- 150°C-JAX-NO	150°C, NORMALLY OPEN
02.	IH042-H- 160°C-JAX-NO	160°C, NORMALLY OPEN
03.	IH042-H- 170°C-JAX-NO	170°C, NORMALLY OPEN
04.	IH042-H- 180°C-JAX-NO	180°C, NORMALLY OPEN
05.	IH042-H- 190°C-JAX-NO	190°C, NORMALLY OPEN
06.	IH042-H- 200°C-JAX-NO	200°C, NORMALLY OPEN
07.	IH042-H- 210°C-JAX-NO	210°C, NORMALLY OPEN
08.	IH042-H- 220°C-JAX-NO	220°C, NORMALLY OPEN
09.	IH042-H- 230°C-JAX-NO	230°C, NORMALLY OPEN
10.	IH042-H- 240°C-JAX-NO	240°C, NORMALLY OPEN
11.	IH042-H- 250°C-JAX-NO	250°C, NORMALLY OPEN

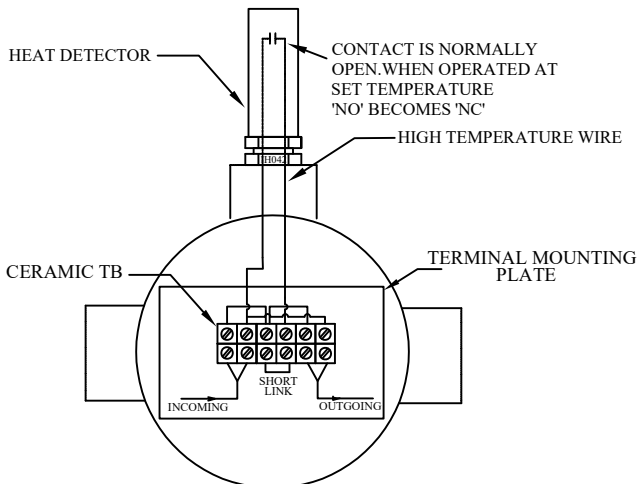


FIG. 3

TYPE - I FOR

ADDRESSABLE FIRE ALARM SYSTEM

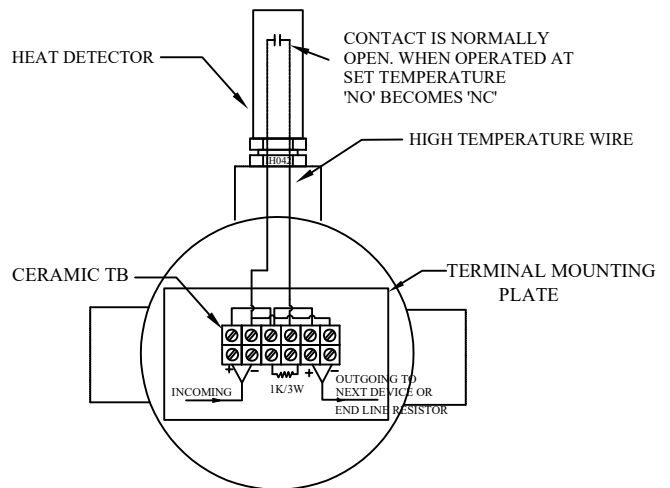


FIG. 4

TYPE - II FOR

CONVENTIONAL 2 WIRE FIRE ALARM SYSTEM

NOTE C:

- HEAT DETECTOR IS CONNECTED WITH SHORT LINK.
- ONE SHORT LINK AND ONE RESISTOR LINK ARE PROVIDED AS SPARE / ACCESSORIES.
- USE ANY ONE LINK AS PER REQUIREMENT.
- AUTO RESET MAY BE AFFECTED IF DETECTOR IS EXPOSED ABOVE 20% OF SET TEMPERATURE.

TECHNICAL SPECIFICATION

HEAT DETECTOR PART NO: IH042-H-*(150-250)°C-JAX-P1

JUNCTION BOX PART NO: IH042-H-*(150-250)°C-JAX-P2

01.	MAKE	AGNI CONTROLS	01.	ENCLOSURE MAKE	LIMATHERM EU
02.	TEMPERATURE SETTING	150°/160°/170°/180°/200°/210°/220°/230° /240°/250°C (FIXED TEMPERATURE ANY ONE SETTING ONLY)	02.	ENCLOSURE MODEL NO	XD-JB85
03.	TYPE OF SENSING ELEMENT	BI-METAL FIXED TEMPERATURE AUTO RESET TYPE(*REFER NOTE C SL.NO.04)	03.	AREA CLASSIFICATION	ZONE 1, 2, 21 & 22
04.	PROBE BODY	ALUMINIUM	04.	HAZARDOUS AREA PROTECTION DETAILS	☑ II 2G Ex db IIC Gb ☑ II 2D Ex tb IIIC Db
05.	TOLERANCE	± 7%	05.	CERTIFICATION FOR ENCLOSURE	☑ ATEX APPROVAL FOR ENCLOSURE. CERTIFICATION NUMBER: FTZU 05 ATEX 0262U ☑ FM APPROVAL FOR ENCLOSURE. ORIGINAL PROJECT ID:3042541.
06.	CURRENT RATING	230V AC - 2A, 110V AC - 5A, 125V DC - 0.5A, 48V DC - 1A, 24V DC - 2A	06.	CABLE ENTRY	M25 X 1.5MM
07.	MATERIAL	MACHINED/CASTING ALUMINIUM PART	07.	TYPE	TO USE HAZARDOUS AREA.
08.	PROTECTION	IP 67 (PROBE ASSEMBLY ONLY)			

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

**ISO 9001 - 2015
CERTIFIED COMPANY**

NO.1, 6TH STREET, Dr.SUBBARAYAN NAGAR,
KODAMBAKKAM, CHENNAI-600 024, INDIA.

PHONE : +91 44 2481 2420,

E-MAIL :engineering@agnicontrols.com WEBSITE : www.balafire.com