



FIRE CONTROLS PVT. LTD.



UNIT NO. 19/20 Vardhaman Service Ind. Estate,
Behind Punjab & Sind Bank,
LBS Marg, Vikhroli (West), Mumbai 400 083.
TEL : +9122 2578 3335 \ 3336 \ 3337
FAX : +9122 2578 3338 \ 2655
E-MAIL : FIRE1@VIMALFIRE.COM

Hollow Metallic Tube Type Automatic Linear Heat Detection (UL Listed System) System cum Extinguishing System for : Rim Seal Area Protection of Floating Roof Tanks

TECHNICAL DATA SHEET

SYSTEM COMPONENTS:

1. Automatic Linear Heat Detection System
2. Foam based Extinguishing System

MAIN FEATURES OF THE LINEAR HEAT DETECTION SYSTEM:

1. World's Best Class 1 Heat Detector.
2. Each millimeter of the sensor tube act as Sensor
3. Can be configured from - 40 C ° to + 160 C°
4. Sensitivity and response behavior can be adjusted according to requirement at site.
5. Fully automatic self-diagnostic feature for no false alarms.
6. High Strength Metallic Sensor tube can be reuse even after several incidents of fires.
7. Parameter Cross zoning facility for rate of rise of temperature & maximum temperature to avoid
8. unwanted discharge of extinguishing system & false alarm.
9. High Resistance to Electromagnetic & Mechanical Interference.
10. Approved and Listed by UL(USA), VDS (GERMANY), EN Standard

TECHNICAL SPECIFICATIONS FOR LINEAR HEAT DETECTION SYSTEM:

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|--|-------------------------------|
| Supply Voltage Range | : 10 to 30 VDC. |
| Sensor tube Length | : 20 – 130 m |
| Sensor tube Diameter (internal / external) | : 4/5 mm. Approx. |
| Sensor tube Material | : SS / Cu |
| Temperature range for sensor tube | : -40°C to +160°C |
| Ambient Humidity of sensor tube | : 100 % RH |
| Ambient Humidity of detector box | : 95 % RH |
| Degree of Protection IEC 529 | : IP 65 |
| Casing Dimensions W X H X D | : 160 X 160 X 93 mm |
| Weight | : 1.7 Kg |
| Digital output signals | : Potential free contacts For |
| a) Fire | |
| b) Detector fault | |

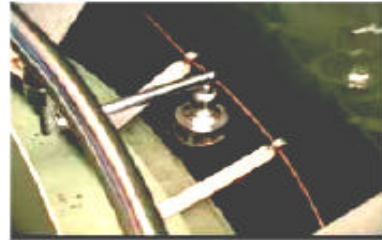
TECHNICAL SPECIFICATIONS OF FOAM EXTINGUISHING SYSTEM:

ONE MODULE (VESSEL) CATERING TO APPROX. 40 MTR LENGTH OF RIM SEAL

| | |
|------------------------------|----------------------------|
| Capacity of each Module | : 225 Ltrs. |
| Foam Solution | : 150 Ltrs. |
| Pressurizing Media | : Nitrogen gas |
| Material of foam module | : SS 304 |
| AFFF FOAM | : UL listed |
| Foam module working pressure | : 14 Bar |
| Vessel design code | : ASME SEC VIII DIV I |
| Pressure monitoring switches | : Flameproof Gr. IIA & IIB |
| Distance between two Nozzles | : 2.5 Mtr. |
| Number of Nozzles | : 16 Nos. |
| Material of nozzles | : Brass chrome plated |
| Pipe Manifold diameter. | : Min. 1" NB |



Tank Guard Foam Module



Tank Guard Sensor & Nozzle



Rim Seal on Fire



Foam Flooding