



FIRE CONTROLS PVT. LTD.



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HYDRO CARBON PUMP SHED PROTECTION

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 unwanted discharge of extinguishing system & false alarm.
8. High Resistance to Electromagnetic & Mechanical Interference.
9. Approved and Listed by UL(USA), VDS (GERMANY), EN Standard

TECHNICAL SPECIFICATIONS FOR LINEAR HEAT DETECTION SYSTEM:

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:

A. WHERE HYDRANT SYSTEM WITH MIN. 7 KG/CM² PRESSURE IS AVAILABLE
One Foam Proportioning System Catering one or more Hydrocarbon Pump Sheds

Capacity of Foam Concentrate storage tank	: As per system requirement
Material of foam tank	: SS 304 / Fiber Glass
AFFF FOAM	: UL listed
Foam proportioning system / inductor	: UL listed
Automatic Water Inlet Valve	: Hydraulically & Electrically Actuated Butterfly Valve (*)
Automatic Foam Discharge Valve	: Hydraulically & Electrically Actuated Ball Valve(*) Distance
between two Nozzles	: 1.5 to 2 Mtr.
Material of nozzles	: Brass chrome plated / Hard anodized Aluminum
Main Header Pipe Line	: 2" NB (or as per specific design requirement)
Branch pipe line	: 1 ½" NB (or as per specific design requirement) (*) OPTIONAL – Remote Valve OPEN/ CLOSE position indication

B. WHERE HYDRANT SYSTEM IS NOT AVAILABLE

One Foam Proportioning System Catering one or more Hydrocarbon Pump Sheds

Capacity of each Module (Vessel)	: As per system requirement
Material of foam module (Vessel)	: SS 304
AFFF FOAM	: UL listed
Foam Vessel design code	: ASME SEC VIII DIV I (**)
Pressure monitoring switches	: Flameproof Gr. IIA & IIB
Distance between two Nozzles	: 1.5 to 2 Mtr.
Foam proportioning system / inductor	: UL listed
Automatic Foam Discharge Valve	: Hydraulically & Electrically Actuated Ball Valve (*)
Material of nozzles	: Brass chrome plated/ Hard anodized Aluminum
Main Header Pipe Line	: 2" NB(or as per specific design requirement)
Branch pipe line	: 1½" NB (or as per specific design requirement)
(*) OPTIONAL – Remote Valve OPEN/ CLOSE position indication	
(**) OPTIONAL – Vessels with U Stamping can also be provided	

HIGHLIGHTS:

- 1) To avoid cumbersome field cabling, apart from localized power to the system, remote system status / alarms can be provided through wireless technology**
- 2) Remote interfacing with PC or DCS system possible – OPTIONAL**

