



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

TRANSFORMER PROTECTION TECHNICAL DATA SHEET

SYSTEM COMPONENTS:

1. Automatic Linear Heat Detection System
2. Water Mist Cooling 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
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
	1. Fire
	2. Detector fault
	3.

TECHNICAL SPECIFICATION OF WATER MIST COOLING SYSTEM:

Water Application Rate	: 10.2 LPM / M2
Min Pressure at extreme nozzle in network	: 3.5 Bar
Velocity of Flow	: 15 M / Sec

PIPES AND FITTINGS

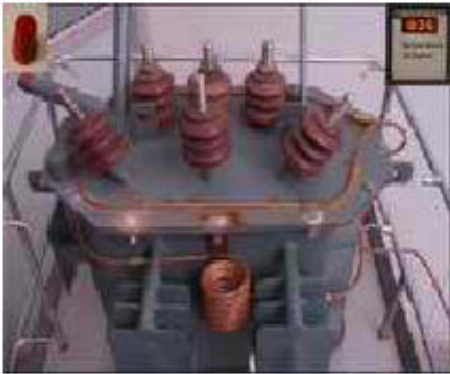
Nominal Size	: 200, 150, 100, 80 , 65, 50 & 40 NB
Rated Working Pressure	: 8 Kg./sq.cm.

Hydrostatic Test Pressure : 15 Kg./sq.cm.
Finish : Fire red epoxy painted.

DELUGE VALVE (UL Listed)

Nominal Size : 200, 150, 100, 80 & 50NB
Rated Working Pressure : 8 Kg./sq.cm. (120 psi)
End Connection : Flanged to ANSI B 16.5
Factory Hydro Test Pressure : 25 Kg./sq.cm. (350 psi)
External Finish : Fire red epoxy painted.

OPTIONAL: 1) Actuation alarm gong bell Pilot pressure monitoring and remote valve actuation signal pressure switch



Sensor Tube and Nozzle Arrangements



Watermist System



Watermist System



Transformer at Normal Condition