

- Up to 1640 sqft.
- Simple 3 Step Install
- Self Restorable up to 257°F

Cut Sheet

Part Number: SS1000

Features

- Alarm & Pre-Alarm temperature can be set at 130°, 150°, 160°, 175°, 185°, or 212°F (54°, 64°, 72°, 79°, 86°, or 100°C)
- Programmable on-site adjustment of sensitivity.
- Up to 500m (1640ft) continuous length. (Max.500m/1640ft per zone)
- Alarm hot-spot length equal to 3% of zone length
- Separate Alarm and Pre-alarm volt-free outputs
- No nomograms or other scales to interpret
- Simple, 3-Step Installation
- Ambient temperature compensation maintains alarm temperature accuracy
- Calibration resistance eliminates requirement to know zone length
- Self-Restorable after fire event up to 257°F (125°C)
- Flexible cable for easy mechanical installation
- Short Circuit Discrimination
- Reliable signalling of open and short circuit conditions
- Remote RESET input
- Analog Sensing
- Compatible with all central control panels
- Extrusion and Braiding options to satisfy both mechanical and environmental conditions

Description

SafeSelect is a new advanced linear overheat detection system that gives you multiple alarms and temperatures all from a single cable. SafeSelect is an interface unit and heat detection cable design to work with a standard fire alarm panel or addressable module.

The interface unit monitors specially doped polymers within the sensor cable whose resistance change as a function of temperature. An abnormal change in resistance along the analog heat detection cable triggers either a Prealarm or alarm on the interface unit and corresponding initiating zone on a fire alarm control panel.

There are many applications which the Linear Heat Detection cable is used to provide protection for. The detection cable



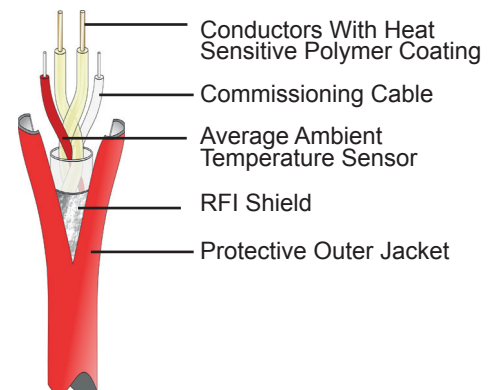
should be adequately supported to prevent sagging. Ideally cable supports should be placed every 1m (3ft) and no more than 1.5m (5ft) apart. It may be necessary to place more supports around corners and other transition areas. Care should be taken when mounting the cable in clips (or equivalent) that they are not done so tight as to crush the cable. The detection cable should be held firmly without deformation. Avoid placing excessive tension in the cable, no greater than 50N. Ensure also that the minimum bend radius is observed at all times – 50mm (2”). It is of particular importance to use a neoprene insulator between the heat sensing cable and the fixing clip if the metal clip is exposed to the sun or attached to a piece of equipment, which may get hot and transfer the heat to the cable.

Applications

- Freezers
- Bearings
- Conveyors
- Escalators
- Cable Trays
- Cooling Towers
- Floating Rooftops

SafeSelect Technology

SafeSelect early linear heat detection cable is constructed using a pair of copper conductors coated in a temperature sensitive polymer whose resistance changes as a function of temperature. A calibration resistance (white) and average ambient temperature sensor (red) core are also twisted with the two original conductors. A foil shield and protective outer coat is extruded over the twisted core.



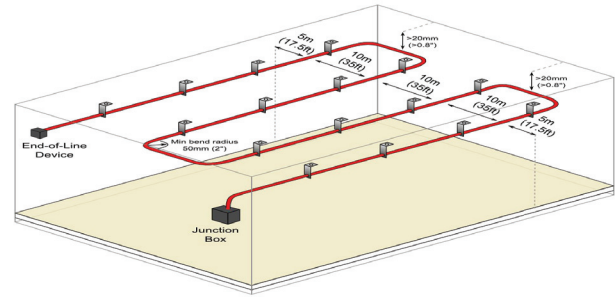
■ Specifications-SafeSelect

Control Module		
Dimensions	W182mm x H180mm x D90mm (W 7 1/8" x H7 1/8" x D3 1/2")	
Enclosure Rating	IP66 (IK08) polycarbonate with removable cover	
Finish	Light grey	
Operating Temperature Range	0°C-50°C (32°F-122°F)	
Supply Voltage	20-28Vdc	
Current Consumption, Normal & Fault	<70mA	
Current Consumption, Prealarm OR Alarm	<80mA	
Current Consumption, Alarm (& Prealarm)	<100mA	
Current Consumption, Fault	<70mA	
Visual Indicators	Function	Color
	ALARM	RED
	PREALARM	RED
	FAULT	ORANGE
	POWER	GREEN
Relay Outputs	ALARM, PREALARM 2A30Vdc load rating-resistive 0.25@250Vac load rating-resistive	
Fault Output	Opto-isolated Phototransistor Output Max 50V @ 20mA	
Remote Reset	Isolated input for resetting module remotely (20-28Vdc pulse for at least 5s)	
Alarm/Prealarm Temperature Range	54°-100°C (129°F-212°F)	
Sensor Cable		
Outer Jacket	High Temperature Red PVC	
Overall Diameter	4.57 0.075mm (0.180" + 0.003")	
RFI Diameter	Twisted and Foil shielding to reduce inductance and RF susceptibility	
Cores	Function	Color
	Calibration resistance	White
	Sensor Core	Red
	Conductor & Specially Doped Polymer Core	Clear
Maximum Continuous Length	500m(1640ft)	
Maximum Continuous Length	30.5m (100ft)	
Operating Temperature Range	-40°C-125°C (-104°F-257°F)	
Continuous Ambient Temperature Range	-40°C-90°C (-104°F-194°F)	

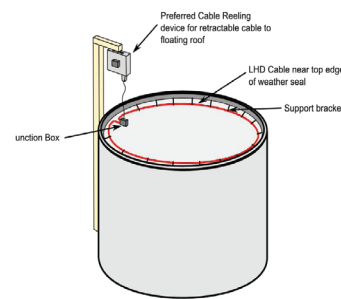
■ Installation Examples

For more Details Please Refer to the SafeSelect Installation Manual.

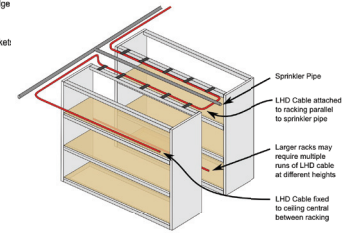
Area Spacing



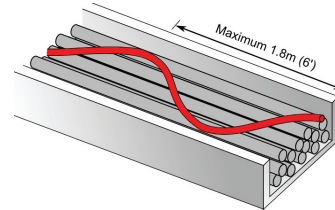
Floating Rooftop Tanks



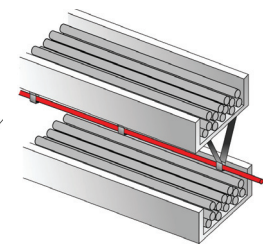
Rack Spacing



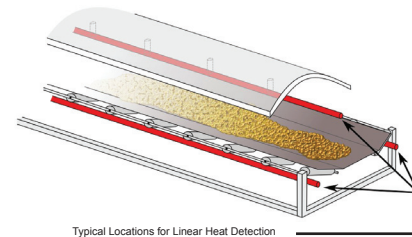
Single Cable Tray



Cable Trays



Conveyor Systems



Note: Please Refer to all federal, state and local codes as well as manufacturer's recommendations prior to design or installation.



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