



Linear Heat Detector NMS1001-UL listed

NMS1001 Digital Linear Heat Detector provides a very-early alarm detecting function to the protected environment, compare with the other kinds of detectors. The detector can be known as an intelligent “switch” type detector. The polymers between the two conductors will break down at specific fixed temperature allowing the conductors to contact, the shot circuit will initiate the alarm. The detector has a continuous sensitivity. The sensitivity of linear heat detector will not be influenced by the environment temperature change and the length of detection cable used. It does not need to be adjusted and compensated. The detector can transfer both alarm and fault signals to control panels normally with 24VDC or without 24VDC.

Features and Benefits

- Industrial safety design
- Electrical interface with low power consumption design
- Real-time monitoring
- Working with 24VDC supply or without 24VDC supply
- Short response time
- No alarm temperature compensation needed
- Compatible to any kind fire alarm system
- Different alarm temperatures: from 68°C to 138°C

Applications

- ✧ Cable tunnel, Cable tray & Cable vault
- ✧ Transmission band
- ✧ Cooling tower
- ✧ Dust collector
- ✧ Oil tank in petrochemical industry
- ✧ Gas tank in petrochemical industry
- ✧ Highway tunnel & Railway tunnel

Part 1 . Linear heat sensor cable and Interface

NMS1001---Sensor Cable (Linear Heat Cable)

- Operating Voltage: 24VDC,
- Allowed Voltage Range: 16VDC-28VDC
- Standby Current: $\leq 20\text{mA}$
- Fire Current: $\leq 30\text{mA}$
- Fault Current: $\leq 25\text{mA}$
- Operating Environment: Temperature: -45°C - $+60^{\circ}\text{C}$
Relative humidity: 95%
- Maximum Relative Humidity for Long Term Use: 90%-98%
- IP Rating : IP66
- Alarm temperatures: 68°C, 88°C, 105 °C, 138°C



NMS1001-I---Adapter (Control Unit or Interface)

- Operating Voltage:24VDC
- Operating Voltage Range: 16VDC-28VDC
- Operating Current: Standby Current: $\leq 20\text{mA}$
Fire Current: $\leq 30\text{mA}$
Fault Current: $\leq 25\text{mA}$
- Operating environment: Temperature: -45°C - 60°C
Relative humidity: 95%
- IP Rating : IP66
- Dimensions:90mm × 85mm × 52mm(L×W×H)



NMS1001-P---Terminal Unit (End Unit)

- Operating Voltage: No Electronics
- Operating environment: Temperature: -45°C - 60°C
Relative humidity:95%
- IP Rating : IP66
- Dimensions: 90mm×85mm×52mm(L×W×H)



Part 2. Accessories

1. Magnetic Fixture

- Product features

This fixture is easy to install. It's fixed with strong magnet, with no need of punching or welding supporting structure when being installed.

- Applied scope

It's widely used for the installation and fixation of the line-type heat detectors on the steel material structures like transformer, large oil tank, cable bridge etc.

- Service environment temperature range
 -10°C ~ 50°C



Installation and use

First, absorb the magnetic fixtures successively on the protected object, and then screw off (or loosen) the two bolts on the upper cover of the fixture, see Fig. 1. Then set the single cable line-type fire detector needing to be fixed and installed in (or pass through) the groove of the magnetic fixture, and finally reset the upper cover of the fixture and screw it up. The number of magnetic fixtures is up to the site situation.

2. Cable tie

➤ Product features

Cable tie is used to fix temperature sensing cable on power cable when the temperature sensing cable is used to protect the power cable.

➤ Applied scope

It's widely used for the installation and fixation of line-type heat detectors to cable tunnel, cable duct, cable bridge etc..

➤ Service environment temperature range

The cable tie is of nylon material, which can be used in environment of -40°C -- 85°C .



3. Intermediate connecting terminal

Intermediate connecting terminal is mainly used as intermediate wiring of temperature sensing cable and signal cable. It's applied when the temperature sensing cable needs intermediate connection for the sake of length. The intermediate connecting terminal is 2P.



Part of international project 2015

NO.	Date	Project name
1	20150107	Indonesia GENYEM Hydropower Station
2	20150323	Iraq Maysan Oilfield Power plant
3	20150601	Thailand NPP9 project (4500meters)
4	20150609	Ethiopia power plant
5	20150615	Cameroon Manweilai Hydropower Station(6000 meters)
6	20150620	Indonesia HongfaWeili power plant (28214 meters)
7	20150908	Iraq Kaweiqiao Project(5000 meters)