HC68 & HC105

Linear heat detection cable

- *HC68: Linear heat detection cable 68°C*
- *HC105: Linear heat detection cable 105°C*

Linear heat detector cables *are reliable and economic tools for monitoring* ***abnormal heat increase*** *which often is a preliminary stage of a full fire event.*
The HC detects heat ***anywhere along its length:*** *It is a* ***continuous heat detector*** *as distinct from the standard* ***point detector.***
The HC sensor cable is composed by two copper covered steel wires, individually insulated with a ***heat sensitive polymer.***
At the ***rated temperature*** *the* ***polymer insulation melts****, permitting the conductors to* ***short-circuit and generate an alarm signal.***
Two temperature alarm levels are available: ***68°C and 105°C.***
HC cable is to be connected *to conventional or analogue fire detection panels (through MAY1T or ETC05b module).*

HC68

HC105

Main characteristics

- Installation close to fire sources
- Ease to installation and maintenance
- High electromagnetic immunity
- Fast substitution of the shorted circuit cable sector
- Fault alarm signalisation for open circuit
- Suitable to any dangerous or difficult access area
- Short response time
- Minimum false alarms
- Simple integration with fire extinguishing systems
- No danger for people in case of HC mechanical rupture
- The detector system also meets intrinsically safe standards

Power supply specification		
	HC68	HC105
Main supply voltage	100Vdc	
Conductor resistance @ 20°C	≤ 290 Ω/km	
Mechanical characteristics		
Conductors	Copper covered steel wire, Ø 0,95 mm	
Isolation	Special polymer heat sensitive at rated temperature	
Cabling	Two insulated conductors are cabled together	
Sheath	Extruded thermoplastic sheath – red	Extruded PVC 105°C sheath – black
Outer sheath color	Red	Black
Unit weight	25 kg / km	26 kg / km
Unit dimensions (in mm)	4,3 mm	4,5 mm
Climatic characteristics		
Operating temperature	40°C max	60°C max
Storage temperature	38°C max	

About the storage:

- Closeness to heating sources such as steam pipes, electric lamps, heaters, etc. must be avoided.
- Pay attention to packaging and transportation in order to never exceed the max rating temperature of the sensor cable. The cable must not sustain any mechanical stress which may cause “false alarm” later on.

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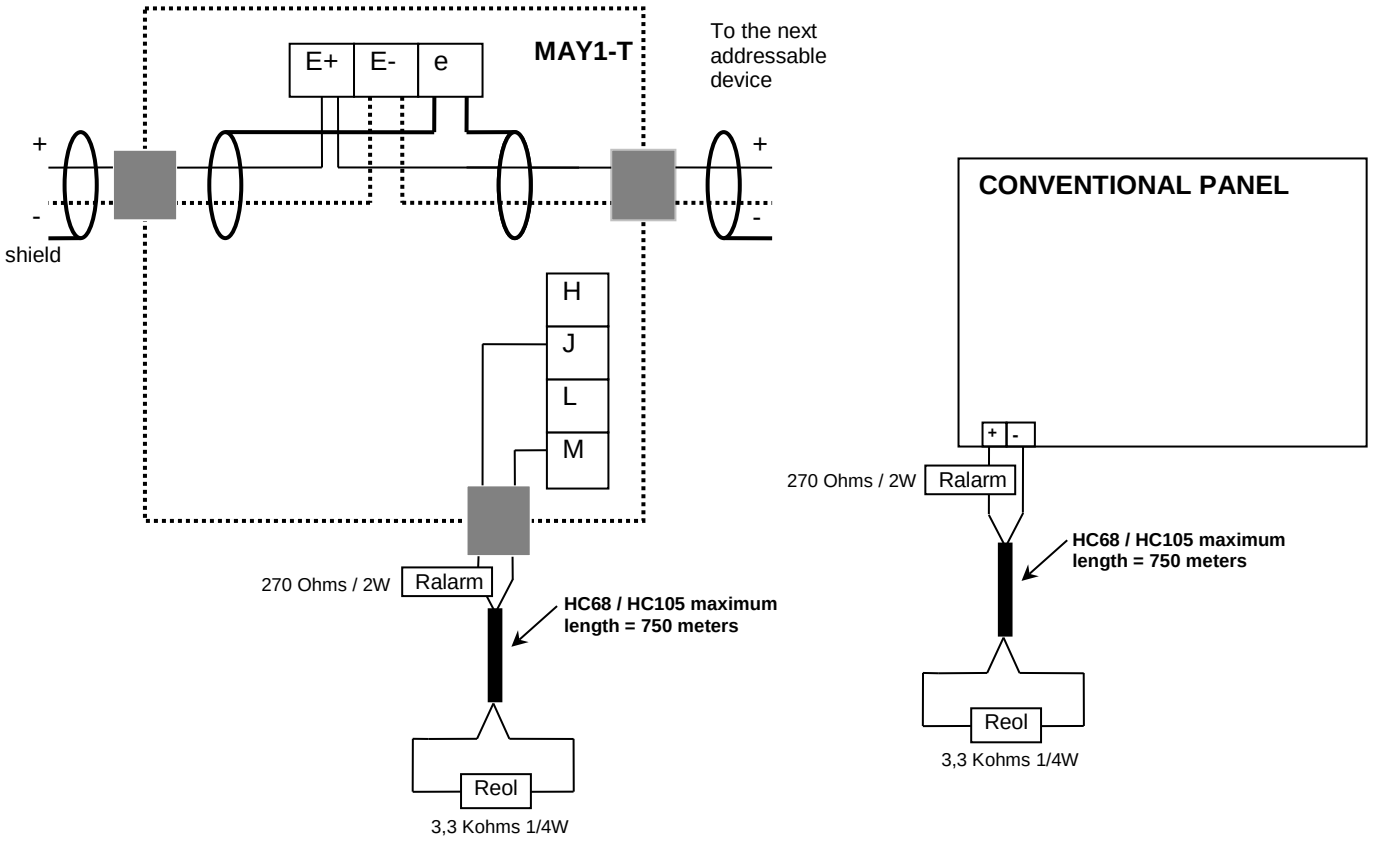
Installation instructions

- As the damages on cables during the transport and storage cannot be excluded, we suggest the packaging inspection before the installation, checking also that the conductors aren't short-circuited
- Do not bend the cable at 90 degree
- Do not use nail type clips and do not give the cable any mechanical impact
- Do not expose the cable near heating sources unacceptable for max. working rating temperature of cables: 40°C for HC-68 and 60°C for HC-105
- Do not over tighten the fasteners
    - Minimum bending radius: 65 mm
    - Do not paint the HC cable
    - Do not directly connect the cable to main electrical supplies
- The light sun rays exposure can cause an increase of temperature of the cable surface over the max operating rating temperature admitted. For this reason, we advise against the use of HC-68 for outdoor application. If necessary, the cable must be shielded in order to keep the temperature within acceptable range.

MAY1-T CONNECTION



REFERENCE	***DESCRIPTION***
HC68	**Linear heat detection 68°C**
HC105	**Linear heat detection 105°C**

INTERFACE	
MAY1T	**Input module for linear heat detector**
ETC05b	**Interactive input/output module for linear heat detector**
ALPHA 4/8/12	**Conventional panel 4, 8 or 12 zones**

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