

Guide for Protection Technical or Facility Galleries with Sensor Cables

TASC's variety of sensor cables help reduce the risks that a fire can cause in a technical gallery.

Technical or Facility galleries include conditions with dirt, dust, moisture and corrosive environments. Conventional technology often fails to offer a reliable and cost-effective protection solution. Forced by conditions, conventional detectors tend to give rise to false alarms and often lead to significant maintenance outlays. The TASC Linear Detection System is designed to minimize operating costs and to perform with maximum reliability even under adverse conditions such as:

- Dirty, dusty and corrosive environments.
- High humidity and dynamic temperature fluctuations.
- Solvent vapours and radioactive radiation.
- ATEX classified areas with gas or dust.

TASC's sensor cable technology is long-lasting and maintenance-free.

A fire in a technical or facility gallery can cause serious damage to the structure of a building and also greatly prolong the continuity of production processes for the property, with the consequent expenses that it would entail.

FIRE DETECTION

For the reasons stated above, fire prevention in a technical or facility gallery is critical.

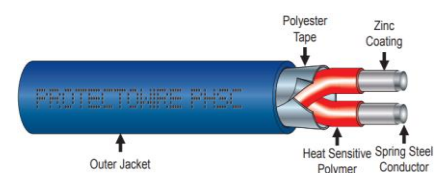
In addition, technical or facility galleries, especially those that are not passable, are difficult to access for maintenance personnel, so the use of sensor cable for fire detection in them becomes more than necessary.

TASC sensing cable systems leave no area unguarded and are maintenance free. Depending on the length of the technical or facility galleries and the features requested by the end user, we can provide the galleries with the two sensor cable technologies that TASC can offer:

- F.O. Linear Heat Detection.



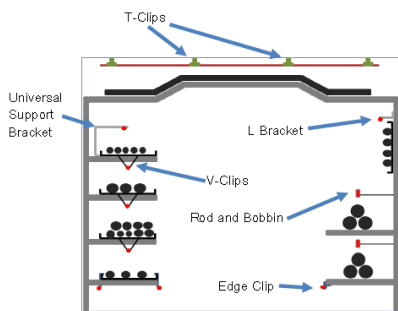
- Thermofuser Linear Heat Detection



In our Application Guide "AG-110 DIFFERENCE BETWEEN FO Y DC -EN-TASC" you can see the different technical features of each of the

systems. This GA-110 can be found on our website.

Ideally, in addition to installing a sensor cable on the roof of the technical or facility gallery, it would also be to protect the cable trays and other installations more closely.



You can also consult our Application Guide "GA-102 Cable Tray Protection" on our website.

This close protection facilitates the detection of electrical cable overheating that other forms of detection (e.g. point detectors) would not be feasible, because they would not withstand the environmental requirements of a technical gallery or skid.

This early detection, where other equipment cannot act, will result in proper performance by the extinguishing media.

Easy integration

The integration of TASC sensing cable system is very simple with the general fire panel system. It is usually done by voltage-free and programmable relays, although you can also use the available ModBus outputs.

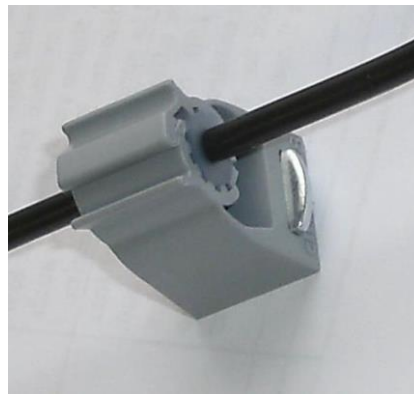
Cable types and installation

With the fiber optic linear detection system, the cable alarm trigger criteria can be programmed, the cable with steel crown protection is recommended due to rodents that could be in the gallery.

For the thermofuser or digital cable we recommend the one with a firing temperature of 68°C and a vinyl or nylon sheath. If the cable is going to trigger some type of extinction, we recommend CTI technology that discriminates between short circuits and alarms due to temperature rise.



There are a lot of accessories to fix the sensor cables, such as the one in the image below.



Regulations

TASC sensing cable systems comply with the following certifications in fire detection systems:

- UL521.
- ULC S530.
- FM GLOBAL.
- EN54-22
- ATEX

In addition, they have a lifespan of 30 years.

Depending on the regulations to be applied, the distance from the sensor element (cable) to the different walls or obstacles and between cables may vary.

For any questions or clarification about this guide and request for prices and references, you can contact us at the following email addresses:

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