

Abstract

Method and device for configuring a tunnel fire detection system

5 The tunnel fire detection system comprises a linear heat sensor with a sensor cable. To configure the detection system, on the basis of parameters of the tunnel and sensor cable as well as on the basis of a fire model the fire development and the fire alarm time are calculated and the installation point of the sensor cable and the alarm limit values of the detection system are optimized in such a way that a potential fire is quickly and reliably detected.

The device for configuring the detection system comprises the following components:

- 10 a. storage means for storing parameters of the tunnel and sensor cable and parameter sets of a fire model;
- b. computational means for calculating the fire development and the resultant heating of the sensor cable on the basis of the stored parameters and parameter sets;
- c. input means for entering data and parameters;
- 15 d. display means for the display and/or output of the fire alarm times, which are obtained for specific parameters, or of the tunnel and sensor cable parameters to be used for preset alarm limit values and fire alarm times.

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