

Title (en)

Method for the energy-saving operation of risk detectors in a risk detection arrangement.

Title (de)

Verfahren zum energiesparenden Betrieb von Gefahrenmeldern in einer Gefahrenmeldeanlage.

Title (fr)

Procédé pour un fonctionnement économique en énergie de détecteurs de danger dans un dispositif de détection de danger.

Publication

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Application

EP 89118339 A 19891003

Priority

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Abstract (en)

[origin: EP0362798A2] The system operating in accordance with the principle of chain synchronization, comprising a central station (Z) having several two-core primary signalling lines (ML), to which a plurality of detectors (Mn) are connected in the form of a chain which are regularly cyclically activated from the central station (Z) and are interrogated for their respective analog detector measurement value, in each case uses detectors (Mn) which exhibit a voltage measuring device (MU) which monitors the applied line voltage (UL), a subsequent logic circuit (VL) with associated sensor part (S), a subsequent control device (St), an energy accumulator (C) and a switching transistor (T). The logic circuit (VL) is essentially formed by a microprocessor which can be connected and disconnected. According to the invention, the microprocessor is switched into a current-saving standby condition and switched on again in dependence on particular switching criteria which are specific for the hazard signalling system, a required start-up time (tan) being ensured for the microprocessor. For example, the microprocessor is switched to the standby condition in dependence on a particular line voltage (disconnecting voltage UAB=UR) and switched on again with the presence of another predetermined line voltage (connecting voltage UAN=US) so that the detector is activated after a particular start-up time (tan=ts). <IMAGE>

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