Title (en)

METHOD FOR THE ENERGY-SAVING OPERATION OF RISK DETECTORS IN A RISK DETECTION ARRANGEMENT

Publication

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Application

EP 89118338 A 19891003

Priority

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Abstract (en)

[origin: EP0362797A2] 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) is connected in the form of a chain, which are cyclically regularly activated from the central station (Z) and are interrogated for their respective analog detector measuring 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 to a current-saving standby condition and switched on again in dependence on particular switching criteria (UAN, DS) which are specific for the hazard signalling system, a required start-up time (tan) being ensured for the microprocessor. For example, each detector (Mn) in turn receives with a cyclic interrogation a particular voltage (connecting voltage UAN) which switches on the microprocessor but only activates the detector concerned after a predetermined start-up time (tan), that after the start-up time (tan) has elapsed, the data traffic with the central station (Z) occurs, a particular receiving time (te) being in each case provided for the reception (E1, E2...) and a particular response time (ta) being in each case provided for the responding (signalling) (A1, A2...). After that, the microprocessor is disconnected with the switching-through (DS) to the next detector. <IMAGE>

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CPC (source: EP)

G08B 26/005 (2013.01)

Citation (search report)

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