Title (en)

SYSTEM COMPRISING A PLURALITY OF SENSOR GROUPS AND METHOD FOR DETERMINING THE INTACTNESS OF SAME

Title (de)

ANORDNUNG MIT EINER VIELZAHL VON SENSORGRUPPEN UND VERFAHREN ZUR BESTIMMUNG IHRER INTAKTHEIT

Title (fr)

ENSEMBLE COMPRENANT UNE PLURALITE DE GROUPES DE CAPTEURS, ET PROCEDE DE RECONNAISSANCE DE L'ETAT INTACT DE CET ENSEMBLE

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Application

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Abstract (en)

[origin: DE19831600C1] The invention relates to a method for determining the intactness of a system comprising a plurality of sensor groups (2, 4) by means of each of which an electric signal can be supplied and to which an evaluation unit (11) for evaluating an aggregate signal consisting of all signals combined is assigned. Said method comprises the following steps: creation of an assigned test signal for each sensor group (2, 4) by addition of the signals of all other sensor groups (2, 4); comparison of all test signals with each other and determination that the system is intact if all test signals are identical and determination that the system is not intact if the test signals are not all identical. The system provided for by the invention is characterized by a circuit (6, 7, 8) by means of which each sensor group (2, 4) can be disconnected so as to exclude its signal from the aggregate signal. Said system is notably configured on a single semiconductor chip (1) in a circuit obtained by CMOS technology.

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