

Title (en)

METHOD AND DEVICE FOR RECONSTRUCTING DATA VALUES OF A SENSOR SIGNAL

Title (de)

VERFAHREN UND VORRICHTUNG ZUM REKONSTRUIEREN VON DATENWERTEN EINES SENSORSIGNALS

Title (fr)

PROCEDE ET DISPOSITIF POUR RECONSTRUIRE DES VALEURS DE DONNEES D'UN SIGNAL DE DETECTION

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Application

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Abstract (en)

[origin: WO2006103130A2] The invention relates to a method for reconstructing data values ($a_{i</SUB>}$) of a sensor signal (20) at random times ($t_{i</SUB>}$), especially in motor vehicles (10), comprising at least one sensor device (6) and at least one sensor (2, 3, 4, 5) for transmitting digital signal values via a transmission path (9) to the control device (6). The inventive method comprises the following steps: (S1) producing digital signal values from data values ($a_{n</SUB>}$) of a sensor signal (20), scanned at defined times ($t_{n</SUB>}$) in the sensor (2, 3, 4, 5) by a sensor element (11), thereby transmitting the digital signal values to the control device (6); (S2) evaluating the transmitted digital signal values using a receiver unit (7) in the control device (6); and (S3) reconstructing the data values ($a_{i</SUB>}$) of the sensor signal (20) by interpolating and/or extrapolating the received digital signal values for random times ($t_{i</SUB>}$). The invention also relates to a corresponding device and a receiver ASIC.

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