

Title (en)

CONTROL UNIT FOR CONTROLLING A BRAKE SYSTEM OF A VEHICLE, SPEED SENSOR ARRANGEMENT, BRAKE SYSTEM AND VEHICLE THEREWITH, AND METHOD THAT CAN BE PERFORMED THEREWITH FOR SPEED SENSING

Title (de)

STEUERGERÄT ZUR STEUERUNG EINER BREMSANLAGE EINES FAHRZEUGES, DREHZAHLSENSORANORDNUNG, BREMSANLAGE UND FAHRZEUG DAMIT SOWIE DAMIT DURCHFÜHRBARES VERFAHREN ZUR DREHZAHLSENSIERUNG

Title (fr)

DISPOSITIF DE COMMANDE D'UN SYSTÈME DE FREINAGE D'UN VÉHICULE, AGENCEMENT DE CAPTEUR DE VITESSE DE ROTATION, SYSTÈME DE FREINAGE ET VÉHICULE ÉQUIPÉS DE CE DISPOSITIF, AINSI QUE PROCÉDÉ DE DÉTECTION DE VITESSE DE ROTATION RÉALISABLE AVEC CE DISPOSITIF

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Application

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Abstract (en)

[origin: WO2014108146A1] The invention relates to a control unit (14) of a brake system of a vehicle (1). The control unit (14) has a receive circuit for tapping and processing a digital signal (30) provided by an active speed sensor (18) for speed measurement on a wheel (2) of the motor vehicle (1), said digital signal (30) containing a item of speed information (34) concerning the speed of a pole wheel (22), which is arranged in front of the speed sensor (18), spaced apart therefrom by an air gap (24), and which rotates along with the wheel (2), and also containing an actual air gap value (32) digitalised in several stages and comprising several bits, which actual air gap value (32) is a dimension for the actual air gap (24) between the pole wheel (22) and the speed sensor (18). The control unit (14) also has a comparator circuit (44) for comparing the actual air gap value (32) to a reference air gap value (60) and for determining whether the actual air gap value (32) exceeds the reference air gap value (60) by more than a defined tolerance value (62). The control unit (14) also has an information circuit (52) for generating and providing an item of early warning information (64), if the comparator circuit (44) has determined that the actual air gap value (32) exceeds the reference air gap value (60) by more than the tolerance value (62). The invention further relates to a speed sensor arrangement (20), a brake system (4) and a vehicle (1) with the control unit (14), and to a measuring method that can be performed therewith.

IPC 8 full level

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Citation (search report)

See references of WO 2014108146A1

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