

Title (en)
ROTATIONAL SPEED SENSOR FOR A VEHICLE, PARTICULARLY COMMERCIAL VEHICLE, AND TO A METHOD FOR THE PRODUCTION THEREOF

Title (de)
DREHZAHLSENSOR FÜR EIN FAHRZEUG, INSBESONDERE NUTZFAHRZEUG, SOWIE EIN VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)
CAPTEUR DE VITESSE DE ROTATION POUR UN VÉHICULE, EN PARTICULIER UN VÉHICULE UTILITAIRE, AINSI QUE PROCÉDÉ POUR SA FABRICATION

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Abstract (en)
[origin: WO2019025050A1] The invention relates to a rotational speed sensor (1) for a motor vehicle, particularly a commercial vehicle. The rotational speed sensor (1) comprises: a sensor carrier (4) and a magnetic sensor (5) which is housed in the sensor carrier (4) and which has a defined sensing system for measuring magnetic impulses of a signal wheel provided on the vehicle wheel, a securing flange (2) having a securing device (12) for securing on a vehicle-sided receiving element, electric lines (8a, 8b) for contacting of the magnetic sensor (5), a sensor housing (3) which surroundingly seals the sensor support (4), the magnetic sensor (5) and the electric lines (8a, 8b). According to the invention, in order to provide a compact and safe embodiment, the sensor housing (3) and the securing flange (2) are designed as an injection-moulding body (14), the sensor carrier (4) accommodating the magnetic sensor (5) on the front end area (4a) thereof and comprises a receiving region towards the back, e.g. a wall which is surrounded at least on the outer side thereof by the injection-moulding body (14), preferably also from inside. In order to produce a plurality of different sensors from few initial components in a simple manner, the sensor carrier can be inserted between two first tool halves. Two second tool halves rotatable to the first rotatable halves can determine the mounting flange in a desired angular position with respect to the sensing direction of the magnetic sensor. All components are connected together in a permanent and in a defined position in relation to each by means of the injection-moulding process. With the aid of a stamp which is inserted between the tool halves and on which the sensor carrier is applied, the length of the sensor can be determined.

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