

Title (en)

LINEAR DISTANCE SENSOR AND THE USE THEREOF AS ACTUATOR FOR MOTOR VEHICLES

Title (de)

LINEARER WEGSENSOR UND DESSEN VERWENDUNG ALS BETÄTIGUNGSVORRICHTUNG FÜR KRAFTFAHRZEUGE

Title (fr)

CAPTEUR DE DÉPLACEMENT LINÉAIRE ET UTILISATION EN TANT QUE DISPOSITIF D'ACTIONNEMENT DE VÉHICULES MOTORISÉS

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Application

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Abstract (en)

[origin: WO0151893A1] The invention relates to a linear distance sensor for motor vehicles, which comprises a slidable element (4, 5, 7) and a stator (1, 2, 3), said slidable element being provided with a magnetic encoder. Sensor modules that work according to the AMR, GMR or Hall principle are linked with the stator. The slidable element is guided in a bearing (11) that is linked with the stator and that encloses and axially guides the slidable element. The sensor module(s) is/are stationarily linked with the stator. The field-producing device(s) is/are positively linked with the slidable element along the longitudinal axis of the slidable element. The invention further relates to the use of the linear distance sensor for measuring the pedal or lever position in a device for actuating the brakes of a motor vehicle.

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