

Title (en)
SENSOR SYSTEM AND METHOD FOR THE CAPACITIVE DETECTION OF OBSTACLES

Title (de)
SENSORSYSTEM UND VERFAHREN ZUR KAPAZITIVEN ERFASSUNG VON HINDERNISSEN

Title (fr)
SYSTÈME DE CAPTEUR ET PROCÉDÉ D'ENREGISTREMENT CAPACITIF D'OBSTACLES

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Application
EP 15749792 A 20150810

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Abstract (en)
[origin: WO2016023863A1] The invention relates to a sensor system for the capacitive detection of obstacles, comprising a capacitive sensor having at least two conductive elements (14, 16) and a control circuit (18, 20) which is joined to the at least two conductive elements and which has a bridge circuit (24), wherein a first end (P1) of the bridge branch is connected to a conductive element (14) of the sensor that is downstream in the direction of detection, and a second end (P2) is connected to an upstream conductor (16) of the switching strip profile (10), wherein, by means of a control section (18) of the control circuit, a control signal is generated and fed into both conductive elements, and the total of the impedances (Z2, Z3) of the bridge circuit connected to the first end of the bridge branch is smaller than the total of the impedances (Z4, Z5) of the bridge circuit connected to the second end of the bridge branch, wherein an electronic evaluation device (20) is provided for evaluating a voltage difference between the first and the second end of the bridge branch.

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