

Title (en)

DIAGNOSABLE CIRCUIT ASSEMBLY, SENSOR APPARATUS HAVING A CIRCUIT ASSEMBLY, AND METHOD FOR DIAGNOSING A CIRCUIT ASSEMBLY AND/OR SENSOR APPARATUS

Title (de)

DIAGNOSEFÄHIGE SCHALTUNGSANORDNUNG, SENSORVORRICHTUNG MIT EINER SCHALTUNGSANORDNUNG UND VERFAHREN ZUR DIAGNOSE EINER SCHALTUNGSANORDNUNG UND/ODER SENSORVORRICHTUNG

Title (fr)

ENSEMBLE CIRCUIT DIAGNOSTIQUABLE, APPAREIL CAPTEUR DOTÉ D'UN ENSEMBLE CIRCUIT ET PROCÉDÉ DE DIAGNOSTIC D'UN ENSEMBLE CIRCUIT ET/OU APPAREIL CAPTEUR

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Application

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Abstract (en)

[origin: WO2022233820A1] The present invention relates to a diagnosable circuit assembly (100), a sensor apparatus comprising such a circuit assembly, and to a method for diagnosing such a circuit assembly, wherein: the circuit assembly (100) comprises an electrical contact switch (10), at least one electrically conductive sensor electrode (30) and a control, measuring and evaluation device (20), and the electrical contact switch (10) comprises a first electrical contact element (A) and a second electrical contact element (B); the first electrical contact element (A) is electrically connected via a first electrical connection line (1) to the first connection (3) of the control, measuring and evaluation device (20), and the second electrical contact element (B) is electrically connected via a second electrical connection line (2) to a base potential (GND) or to the second connection (4) of the control, measuring and evaluation device (20); together with a contact element (A, B) of the contact switch (10), the sensor electrode (30) forms a sensor capacitor, and a switching state of the contact switch (10) can be determined by means of the sensor electrode (30); and, depending on the switching state of the contact switch (10), a functional state of the circuit assembly (100) can be determined for diagnosis of the circuit assembly.

IPC 8 full level

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