

Title (en)

CURRENT DISTRIBUTION UNIT COMPRISING A LOAD DETECTION UNIT FOR MEASURING A DETECTION VOLTAGE

Title (de)

STROMVERTEILEINHEIT UMFASSEND EINE LASTDETEKTIONSEINHEIT ZUM MESSEN EINER DETEKTIONSSPANNUNG

Title (fr)

UNITÉ DE DISTRIBUTION DE COURANT COMPRENANT UNE UNITÉ DE DÉTECTION DE CHARGE POUR MESURER UNE TENSION DE DÉTECTION

Publication

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Application

EP 21801112 A 20211026

Priority

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Abstract (en)

[origin: WO2022090225A1] The current distribution unit (10) according to the invention comprises a load detection unit (20) for at least one electrical contact (21, 22, 23, 24) arranged on the load detection unit (20) for measuring a detection voltage (UD) for checking an assignment of the contact (21, 22, 23, 24). The invention is characterised in that the load detection unit (20) is configured for a plurality of electrical contacts (21, 22, 23, 24), each of which is provided with at least one switch (S1, S2, S3, Sn) connected parallel to the contacts (21, 22, 23, 24) and wherein the load detection unit (20) has a resistor (R1, R2, R3, Rn) which is in each case arranged parallel to and forming a pair with one of the switches (S1, S2, S3, Sn) and the parallel circuits (S1 with R1; S2 with R2, S3 with R3,..., Sn with Rn) are connected in series in the current direction of a test current (I). The invention further relates to a method for measuring a detection voltage (UD) and a use of a current distribution unit (10) according to the invention.

IPC 8 full level

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