

Title (en)

SAFETY SWITCH DEVICE WITH SWITCHING ELEMENT IN AN ELECTRIC PATH COMPRISING AUXILIARY CONTACTS

Title (de)

SICHERHEITSSCHALTVORRICHTUNG MIT SCHALTELEMENT IM HILFSKONTAKTSTROMPFAD

Title (fr)

DISPOSITIF DE COMMUTATION DE SÉCURITÉ COMPRENANT ÉLÉMENT DE COMMUTATION COMBINÉ INTÉGRÉ DANS UNE VOIE DE COURANT COMPRENANT CONTACTS AUXILIAIRES

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2013149905A1] The invention relates to a safety switching apparatus (1) for switching a technical installation (10) on or off in a failsafe manner, having a failsafe control/evaluation unit (28) with an input (34) for receiving an input signal. The failsafe control/evaluation unit (28) is designed to process the input signal in order to generate, on the basis thereof, an output signal (A) for switching the technical installation (10) on or off at an output signal time (t1, t2). The failsafe control/evaluation unit (28) has a first output (36) for transmitting the output signal (A) to an electromechanical switch (40). The electromechanical switch (40) has a normally open contact (42) for switching a load circuit (49) of the technical installation (10) and a positively driven auxiliary contact (44) in an auxiliary contact current path (45), via which a current can be carried, when a defined voltage (V1) is applied, in order to check the switching position of the normally open contact (42). A switching element (50) is arranged in the auxiliary contact current path (45). The failsafe control/evaluation unit (28) is designed to generate a switching signal (S) at a switching signal time (t3, t4) with an interval of time (Deltat3, Deltat4) from the output signal time (t1, t2), wherein the failsafe control/evaluation unit (28) has a second output (52) for transmitting the switching signal (S) to the switching element (50) which is designed to switch the current through the auxiliary contact current path (45) when the switching signal (S) is received.

IPC 8 full level

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