

Title (en)

Supervisory circuit for the safety contacts of elevators.

Title (de)

Überwachungsschaltung für die Sicherheitskontakte von Aufzügen.

Title (fr)

Circuit de surveillance pour les contacts de sécurité d'ascenceurs.

Publication

EP 0149727 A1 19850731 (DE)

Application

EP 84112557 A 19841018

Priority

DE 3343303 A 19831130

Abstract (en)

1. Supervisory circuit for safety contacts (Si) located in the safety circuit of at least one travelling contactor (RA, RS) of lift-control gear, in particular door and bolt contacts, which are connected in series with the at least one travelling contactor (RA, RS) along a safety section (A-B) between a first supply voltage terminal (A) and a second supply voltage terminal (B), each of the safety contacts (Si) being associated with a control circuit (Ki) producing an evaluable control signal characteristic of the state of the associated safety switch, one terminal of the control circuit being connected to the side of the associated safety contact (Si) remote from the first supply voltage terminal (A) and the other terminal of the control circuit being connected to the second supply voltage terminal (B), characterized in that the internal resistance (Ri) of each of the control circuits (Ki) is selected so that in the most unfavourable case, namely in the case of a disconnection (U) in the supervisory circuit and with the simultaneous of an open safety contact (Si), in particular in the middle of the series connection, a current, which flows by way of the control circuits (Ki) comprising only one finite internal resistance (Ri) and the safety section (A-B), at the at least one travelling contactor (RA, RS) merely leads to a voltage drop, which clearly lies below the response threshold and the drop-out threshold for the travelling contactor (RA, RS).

Abstract (de)

Die im Sicherheitskreis von mindestens einem Fahrschütz einer Aufzugsteuerung liegende Sicherheitskontakte insbesondere Tür- und Riegelkontakte (S1 bis S4), die in Serie mit insbesondere zwei parallel zueinander geschalteten Fahrschützen (RA, RS) zwischen einen ersten Speisespannungsanschluß (A) und einen zweiten Speisespannungsanschluß (B) geschaltet sind werden überwacht. Den einzelnen Sicherheitskontakten (S1 bis S4) sind Kontrollschaltungen (K1 bis K4) zugeordnet, die so dimensioniert sind, daß Parallelzweige zur Sicherheitsstrecke entstehen, über die auch im ungünstigsten Fall nur ein Strom fließen kann, bei dem die angeschlossenen Schütze (RA, RS) mit Sicherheit abfallen und mit Sicherheit nicht anziehen.

IPC 1-7

G08B 29/00; **B66B 5/00**

IPC 8 full level

B66B 5/00 (2006.01); **B66B 5/02** (2006.01); **G08B 29/00** (2006.01)

CPC (source: EP)

B66B 5/0031 (2013.01); **B66B 13/22** (2013.01)

Citation (search report)

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- [A] DE 2611145 A1 19770922 - GROTHE & SOEHNE KG A
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- [A] PATENT ABSTRACTS OF JAPAN, Band 3, Nr. 62, 29. Mai 1979, Seite 90M60; & JP-A-54-38053 (MITSUBISHI DENKI) 22-03-1979

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