

Title (en)

Main-standby filament switch for AC driven two-filament lamps in traffic signalling devices.

Title (de)

Haupt/Nebenfadenumschalter für wechselstromgespeiste Doppelfadenlampen in Verkehrssignalanlagen.

Title (fr)

Commutateur filament principal-filament de secours pour lampes à double filament alimentées en courant alternatif dans des installations de signalisation du trafic.

Publication

**EP 0432624 B1 19940302 (DE)**

Application

**EP 90123330 A 19901205**

Priority

DE 3941328 A 19891214

Abstract (en)

[origin: EP0432624A1] AC switches (TRH, TRN) are connected in both the main and standby filament circuit of a signalling lamp (L). As long as the main filament (HF) is switched on and is intact, the main filament AC switch (TRH) is switched through via input diodes, connected in reverse-parallel, of an optocoupler (U1). When current is flowing through the input diodes, the photo-transistor of this optocoupler controls a switch (S1) which is used, in this switching state, to switch off the input diode of an electro-optical AC switch (U2). If the main filament (HF) burns out and the switch (S1) is driven into the other position, the electro-optically controlled AC switch (U2) is switched through and, for its part, switches the standby filament AC switch (TRN) through. The feedback report on the operating state of the signal lamp to the control mechanism takes place via the optocoupler (U3). The main/standby filament switch is constructed using only a few, proven electronic components. It is used especially in railway signalling lights. <IMAGE>

IPC 1-7

**H05B 39/10**; **B61L 5/18**

IPC 8 full level

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CPC (source: EP)

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DOCDB simple family (publication)

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