

Title (en)  
Control device for controlling switching devices

Title (de)  
Steuereinrichtung zur Betätigung von Schalteinrichtungen

Title (fr)  
Dispositif de commande pour commander des appareils de commutation

Publication  
**EP 0660044 B1 19960417 (DE)**

Application  
**EP 93810910 A 19931224**

Priority  
EP 93810910 A 19931224

Abstract (en)  
[origin: EP0660044A1] The information items (which are present on signal lines ML1; ML2) in the form of analog low-voltage signals (V1; V2) about the states of switching devices (2.1; 2.2) are supplied in parallel form to a circuit block (4), are digitised at specific points in time in accordance with a predetermined voltage level as binary values of "0" or "1", and are transmitted in serial form to a control logic device (1). One or more shift registers, connected in cascade, are suitable in particular as the circuit block (4). The signal lines are coupled to the circuit block (4), in each case via coupling elements (3.1; 3.2), such that the circuit block (4) is not destroyed even in the event of overvoltages. When one switching device (2.1; 2.2) is in the closed state, a signal voltage (U1; U2) having an alternating profile is present on the appropriate input (4.1; 4.2) of the circuit block (4). When one switching device (2.1; 2.2) is in the open state, a signal voltage (U1; U2) in the form of DC is present. The digitisation is carried out by means of a synchronisation device (8) in each case at points in time where the level of the AC signal voltage (U1; U2) clearly differs from the level of the null-point voltage (G). This control device is suitable in particular for controlling an oil or gas burner which is operating continuously. <IMAGE>

IPC 1-7  
**F23N 5/24**; G05B 9/02; H01H 9/16

IPC 8 full level  
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CPC (source: EP US)  
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