

Title (en)

Push-button switch.

Title (de)

Drucktastenschalter.

Title (fr)

Commutateur à bouton-poussoirs.

Publication

EP 0118599 A1 19840919 (DE)

Application

EP 83111249 A 19831111

Priority

DE 3303735 A 19830204

Abstract (en)

1. A push button switch having a pot-shaped housing (1) which is open on one side, which comprises a housing base (2) and housing walls (3) and in which there may be moved a switching slide (4), in which there are arranged cooperating fixed contacts (5) and contact elements (7) which are pivoted on fixed terminal pieces (6), which are formed as double-armed levers and which through actuation of the switching slide (4) may be displaced suddenly, of which in each case the first arms (8) act together with the fixed cooperating contacts (5) and the second arms (9) are operatively connected with the switching slide (4) by means of notches (10) provided in the latter and thereby form a first bearing of the switching slide (4), having a coil pressure spring (11) which serves as a spring mechanism and to produce the contact pressure and which forms a second bearing for the switching slide (4) as it acts on the side of the switching slide (4) remote from the notches (10)-holding said slide at a distance from the front wall of the housing - and with its first end is supported on the base of a cavity (13) of a pot-shaped central portion (14) of the switching slide (4) which is arranged as a projection between the notches (10), having a sliding key (15) coupled with the switching slide (4), characterized in that the sliding key (15) has a stop device in which a stop member is guided in a heart-shaped connecting link of the sliding key (15), in that a first slide bearing is formed for the spring-loaded sliding key (15), which is provided with an actuating button, as the actuating button (18) is guided on a hollow attachment (19) which is pre-formed on the front wall (12) of the housing (1) and which projects into a recess (20) of the actuating button (18), in that the coil pressure spring (11) travels through an opening in the front wall (12) of the housing and the hollow attachment (19) and is supported at its second end on the base of the recess (20) of the actuating button (18) and in that the second slide bearing of the sliding key (15) is formed by at least one pre-formed stop tongue (21) which extends crosswise in respect of the longitudinal direction of the sliding key and which is guided in a displaceable manner in an elongate recess (22) of a dividing wall piece (23) of the housing after snap engagement.

Abstract (de)

Es wird ein Drucktastenschalter mit einem topfförmigen Gehäuse, (1) beschrieben in dem ein Schaltsystem angeordnet ist. Mit dem Schaltschieber (4) des Schaltsystems ist ein Tastenschieber (15) gekoppelt, der eine Rastvorrichtung aufweist und der durch eine Schraubendruckfeder (11) federbelastet ist. Diese Schraubendruckfeder dient sowohl als Sprungwerk als auch zur Erzeugung des Kontaktdruckes. Der Tastenschieber ist in zwei Gleitlagern geführt, wobei das erste Gleitlager aus einem an das Gehäuse angeformten, hohlförmigen Ansatz besteht (19), der in eine Ausnehmung des Tastenschiebers hineinragt. Die Schraubendruckfeder durchsetzt diesen Ansatz und stützt sich am Schaltschieber und am Tastenschieber ab. Das zweite Gleitlager besteht aus einer Rastzunge (21) des Tastenschiebers, die im Gehäuse geführt ist. Zwischen dem Schaltsystem ist die Rastvorrichtung (16) angeordnet. Der das Gehäuse abschließende Deckel (24) ist an den Tastenschieber angeformt.

IPC 1-7

H01H 13/14

IPC 8 full level

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CPC (source: EP)

H01H 13/562 (2013.01)

Citation (search report)

- [AD] DE 1910165 C3 19800228
- [AD] DE 3107769 A1 19820107 - ALPS ELECTRIC CO LTD [JP]
- [A] DE 1665832 B2 19730620
- [A] DE 1285593 B 19681219 - SCHADOW RUDOLF

Cited by

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