Title (en)

CODING SWITCH

Publication

EP 0004961 B1 19830126 (DE)

Application

EP 79101162 A 19790417

Priority

DE 2816707 A 19780418

Abstract (en)

[origin: EP0004961A1] 1. Coding switch for the conversion of the digital values of a linear geometric quantity settable in n stages, for example an angle, a stroke or the like, into a number allocated according to a code modulo m/n, of closed contacts of an m-bit-pole, n-stage switch, which are electrically interrogatable by machine and supplement with characteristic data, with a circuit arrangement to which there pertain contact springs and counter-contact or bridge positions which lie in two surfaces parallel to the plane of displacement of the geometric quantity, with an externally manually operable step-setting mechanism for the n stages, in an at least approximately parallelepipedic housing the side faces of which, in the case of stacking of similar coding switches in building block manner into a switch pack, abut on one another possibly through an interlayer, and which possesses a front and a rear face, with m contact springs (21 to 24) which are non-displaceably arranged in one plane parallel with one another, electrically form the one poles of the multi-pole switch and co-operate with contact points likewise lying non-displaceably in one plane parallel with one another, are acted upon by a cam disc (16), the cams (27) of which are adaptedly dimensioned and arranged in m paths (part circles 28 to 31) according to the switch programme of the code as regards the position and length of their sections allocated to the n stages, characterised in that the contact springs (21 to 24) together with their connection terminal (39) are united by a bridge (20) integrally into a leaf spring (19) (Figure 1 and Figure 3), which co-operate each with a contact point, while support faces (108, 109 in Figure 6) serve for the retention of the leaf spring (19) in one part of the housing and a clamping counter-support face (55 in Figure 2) and pegs (56, 57) serve for the adjustment of the leaf spring (19 in Figure 1) in another part of the housing which is positively adjusted with the first part by skeleton forms.

IPC 1-7

H01H 19/63; G06M 1/276; G08C 9/08; H01H 19/00; H03K 13/18

IPC 8 full level

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