Title (en)

Temperature controlled switching device

Title (de)

Temperaturgesteuerte Schalteinrichtung

Title (fr)

Dispositif de commutation à commande thermique

Publication

EP 0593796 B1 19970423 (DE)

Application

EP 92117774 A 19921017

Priority

EP 92117774 A 19921017

Abstract (en)

[origin: EP0593796A1] A temperature-controlled switching device (1), which serves for monitoring heat-generating installations and for switching them off in the event of an excessive temperature rise, is provided with a temperature-dependent displacement sensor (2), an electric switch (3), controlled by the latter, and a set point generator. The set point generator has an adjusting threaded bolt (4), which can be adjusted about an axis (D) for changing the switching temperature of the electric switch (3), and a latching device, which is effective between the adjusting threaded bolt (4) and a housing (9) of the temperature-controlled switching device (1) for irreversible set point adjustment, with a latching profile (19) and a number of spring elements (8) engaging in the latching profile (19). The spring elements (8) are axially deflectable. The spring elements (8) are preferably arranged uniformly around the circumference of a circle surrounding the axis (D). The advantage is that no lateral forces are transmitted to the adjusting threaded bolt (4), and that the axial forces are also absorbed due to the way in which the set point generator is designed. As a result, the switching accuracy or the nominal-value tolerance of the temperature-controlled switching device (1) is improved. <IMAGE>

IPC 1-7

H01H 37/12

IPC 8 full level

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CPC (source: EP)

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