

ABSTRACT

HEAT-REACTIVE SWITCH

This heat-reactive switch comprises: an airtight container constituted from a metal housing and a lid plate; two conductive terminal pins, which are fixed in an airtight manner in two through-holes provided on the lid plate; a fixed contact point, which is fixed on one of the conductive terminal pins; a heater, whereof one end is connected to the other conductive terminal pin, and the other end is connected to the lid plate; a heat-reactive plate, whereof one end is connected to the housing internal surface, and whereof the bending direction becomes inverted at a predetermined temperature; and a mobile contact point provided at the other end of the heat-reactive plate, constituting a switch contact together with the fixed contact point. A heating element of the heater has a plurality of serpentine portions comprising a metal plate in ribbon form, and is disposed between the lid plate and the heat-reactive plate so as to be parallel thereto. Of the serpentine portions, at least two are disposed so as to face each other while sandwiching the conductive terminal pin, each being disposed so as to follow the inner peripheral surface of the housing and having ribbon-shaped planar portions facing each other by being folded using as the reference a reference axis extending in the length direction of the housing.

FIG. 4