

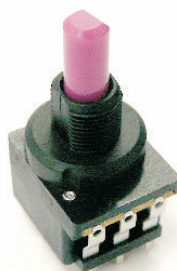
17mm pot. with 10A/250v switch rating

Standard features

- Switch rating: 10A/250V AC
- Switch types: rotary and push
- Switch operating force: 2Kgf MAX.
- Switch insulation resistance: 500MΩ MIN.
- Switch operating life: 40K cycles
- Potentiometer life: 10K cycles
- Rotational angle: 300 ± 5°
- Rated voltage: 350 VDC
- Detented versions available (16 detents)
- Detent torque: 300 gf.cm MAX.

Main applications

- Light dimmer
- Fan control



Description

Virtually every household today uses some form of lightning controlled by a dimmer. Most frequently, dimmer solutions are used for low voltage halogen lamps as well as standard light bulbs.

Although microcontroller solutions are increasingly available as a convenient dimming solution, manual rotation-type dimmers with mechanical switching won't go away so easily, as they offer a significant cost advantage.

The PC17 potentiometer integrates a switch that is able to withstand 250v so it is ideal for this application since it offers an all-in-one solution for dimmer+switch applications. A 16 detents version is also available for stepped dimming function.

One key criterion for dimmer components is the required VDE approval. VDE is the German safety regulatory agency that tests products to the specific safety and performance standards required by that country. VDE standards are generally considered to be the most stringent standards enforced and are widely regarded as the "must have" approval, to sell products in Europe.

Normally, the manufacturer obtains VDE approval for resistive loads in temperature environments of 100° C (T100) and 85° C (T85) from the appropriate VDE testing authority. In addition, a prescribed number of switching cycles must be met, as set forth by the VDE standard. An standard PC17 VDE Certificate Application for a customer may take 6 ~ 8 weeks.

Other safety approvals are UL and CSA (USA and Canada)

About PIHER-NACESA

Piher is a specialist manufacturer of position sensor and control solutions for the worldwide Land Vehicle and Appliance markets. Our products are typically employed for HVAC (Climate Control), AFL (Adaptive Front Lighting), Infotainment and Seat Memory & Heating in the Automotive industry and for Human Interface applications in the Consumer Electronics, Major Appliances, Power Tools and Industrial/Instrumentation markets.

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