

The proposed device for illumination contains a direct current source, a current-limiting element, a switch, an incandescent lamp, and additionally, a shunting field-effect transistor and a control circuit, which contains a bipolar transistor, a light-emitting diode, a resistor in the emitter circuit of the bipolar transistor, and a potentiometer. The positive terminal of the direct current source is connected to the first terminal of the lamp via the switch and the current-limiting element. The second terminal of the lamp is connected to the negative terminal of the direct current source. The drain and source of the field-effect transistor are connected accordingly to the first and second terminals of the current-limiting element. The gate of the field-effect transistor is connected to the emitter of the bipolar transistor, which is connected to the negative terminal of the direct current source via the resistor. The first terminal of the potentiometer is connected to the negative terminal of the direct current source. The second terminal of the potentiometer is connected to the first terminal of the lamp. The intermediate terminal of the potentiometer is connected to the base of the bipolar transistor. The collector of the bipolar transistor is connected to the switch via the light-emitting diode.