

2. Basic circuits: Manual controllers

2.1 Control via potentiometer



The simplest way of controlling a lighting system is with a suitably dimensioned potentiometer (available in electrical retail outlets). Since the control output of the DIM ECG is generated by the ECG itself, the resistance value depends on the number n of connected ECGs. It can be calculated using the following formula:

$$R_{pot} = \frac{300 \text{ k}\Omega \cdot \log}{n}$$

If the calculated value is not in the resistance table the next higher value should be used, otherwise the lamps cannot be operated at their full output (note: this over-dimensioning may mean that the potentiometer may not turn through a complete rotation for controlling the brightness).

The potentiometer must be designed for an output of $P_{pot} = 2.8 \text{ (mW)} \cdot n$.

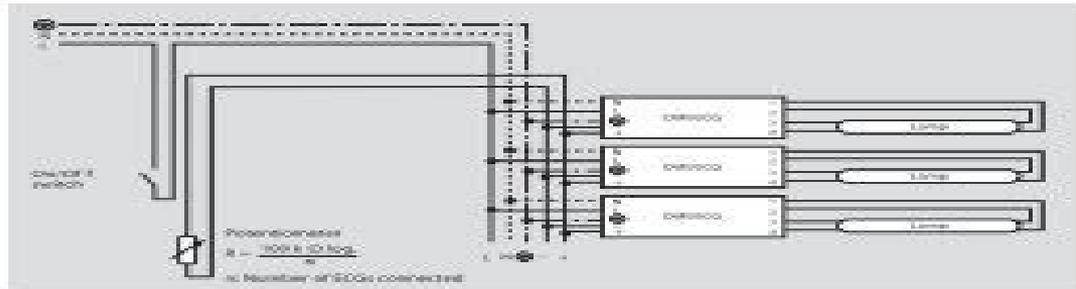
A mains switch is also needed to switch the lighting system on and off. When connecting the potentiometer make sure that the full lighting level is reached when the potentiometer is turned to the right.

If more than two ECGs are connected it is normally better to use a DIM MCU manual control unit.

Application

Floor-standing luminaires, single luminaires

Control via potentiometer



2.2 Systems with up to 50 ECGs with manual control unit DIM MCU

Manual control unit DIM MCU is the standard solution for manual brightness control from a single control point (e.g. in small to medium size rooms with one door).

A maximum of 50 DIM ECGs can be controlled with one manual control unit. Control with a combination of two or more manual control units is not possible. If more than one control point is to be installed it is best to equip the system with DIM ICM 10 and louvre switches (see 2.3).

Application

Offices, small meeting rooms

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